

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 29, 2004, 22:51:23 ; Search time 4429 Seconds
(without alignments)
2965.215 Million cell updates/sec

Title: US-10-047-021-86
Perfect score: 303
Sequence: 1 MGSGBSLLGGRSLPILL.....SGPRLPREALRGRRNTG 303

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Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
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Searched: 3470272 seqs, 21671516995 residues

Word size: 1
Total number of hits satisfying chosen parameters: 6934743

Minimum DB seq length: 0
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Post-processing: Listing first 45 summaries

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pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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ALIGNMENTS

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LOCUS BD074325 1346 bp DNA linear PAT 27-AUG-2002
DEFINITION 50 human secreted proteins.
ACCESSION BD074325
VERSION BD074325.1 GI:22619928
KEYWORDS JP 2001514024-A/30.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1346)
AUTHORS Moore,P.A., Ruben,S.M., Lafleur,D.W., Shi,Y., Rosen,C.A.,
Olson,H.S., Ebner,R. and Brewer,L.A.
TITLE 50 human secreted proteins
JOURNAL Patent: JP 2001514024-A 30 11-SEP-2001;
HUMAN GENOME SCIENCES INC
COMMENT OS Homo sapiens (human)
PN JP 2001514024-A/30
PD 11-SEP-2001
PF 03-SEP-1998 JP 2000508394
PR 05-SEP-1997 US 60/057626,05-SEP-1997 US 60/057663 PR
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12-SEP-1997 US 60/058974,12-SEP-1997 US 60/058973 PR
12-SEP-1997 US 60/058666
PI PAUL A MOORE, STEVEN M RUBEN, DAVID W LAFLEUR, YANNGU SHI, CRAIG A
PI ROSEN,
PI HENRIK S OLSEN, REINHARD EBNER, LAURIE A BREWER PC
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DB: 6 Gaps: 0
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LOCUS AX405719
DEFINITION Sequence 134 from Patent WO0222660.
ACCESSION AX405719
VERSION AX405719.1 GI:21438877
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Tang,Y.T., Liu,C., Zhou,P., Asundi,V., Zhang,J., Zhao,Q.A., Ren,F.,
Xue,A.J., Yang,Y., Wehrman,T. and Drmanac,R.T.
TITLE Novel nucleic acids and polypeptides
JOURNAL Patent: WO 0222660-A 134 21-MAR-2002;
HYSEQ, INC. (US)
FEATURES
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VERSION AY358083.1 GI:37181271
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ORGANISM Homo sapiens
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Clark,H.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J.,
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Xie,M.H., Yansura,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z.,
Goddard,A., Wood,W.I. and Godowski,P.
The Secreted Protein Discovery Initiative (SPDI), a Large-Scale
Effort to Identify Novel Human Secreted and Transmembrane Proteins:
A Bioinformatics Assessment
Genome Res. 13 (10), 2285-2270 (2003)
REFERENCE 2 (bases 1 to 3716)
AUTHORS Clark,H.F.
TITLE Direct Submission
JOURNAL Submitted (01-AUG-2003) Department of Bioinformatics, Genentech,
Inc., 1 DNA Way, South San Francisco, CA 94080, USA
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Db 788 TCGGAATTCAGCTGGAAATGTGACATGTGTGAACCCCGATCTCTGCAGAGGGCCCCAAGC 847

Qy 260 roArgProAlaValTrpLeu 266
Db 848 CTAGACCGCGGTGTGGCTC 867

RESULT 5
AX870164 756 bp DNA linear PAT 17-DEC-2003
LOCUS
DEFINITION
Sequence 5069 from Patent EP1074617.
ACCESSION
AX870164
VERSION
AX870164.1 GI:40025027
KEYWORDS
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 Ota, T., Iwagai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J.,
Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K. and Otsuki, T.
Primer for synthesizing full-length cDNA and their use
Patent: EP 1074617-A 5069 07-FEB-2001;
Research Association for Biotechnology (JP)
FEATURES
Location/Qualifiers
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/mol_type="unassigned DNA"

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/db_xref="taxon:9606"

ORIGIN

Alignment Scores:
 Pred. No.: 6,12e-109 Length: 756
 Score: 120.00 Matches: 200
 Percent Similarity: 98.04% Conservative: 0
 Best Local Similarity: 98.04% Mismatches: 2
 Query Match: 39.60% Indels: 4
 DB: 6 Gaps: 0

US-10-047-021-86 (1-303) x AX870164 (1-756)

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Db 40 ATGGGCTCTGGAGGAGACAGACCTCTCGGGGGCAGGGTTCCCTGCCTGTGTGTCTCTG 99

Qy 21 LeuileMetGlyGlyMetAlaGlnAspSerProProGlnIleLeuValHisProGlnAsp 40
Db 100 CTCAATCATGGAGGATGGCTCAGACTCCCGGCCCCAGATCCTAGTCCACCCCGAGGAC 159

Qy 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProPr 60
Db 160 CAGCTGTTCAGGAGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 218

Qy 60 oProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHi 80
Db 219 TCCACCATCCCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 278

Qy 80 sHisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHi 100
Db 279 CCACCTCTGCTGATGGAGCCCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 338

Qy 100 sAspGlyGlnAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLe 120
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Qy 120 uGlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheG1 140
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Qy 160 oProTrpGlyHisProGlnProThrValSerTrpTrpLeuAspGlyLysProLeuAlaL 180
Db 519 GCGCTGGGCGCCACCCAGAGCCCAAGTCTCATGTGTGGAAGATGA-GAAACCCCTGGGCC 577

Qy 180 euGlnProGlyArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLys 200
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Qy 200 eAspGlu 202
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BD150226 756 bp DNA linear PAT 17-JAN-2003
LOCUS
DEFINITION
Primer for synthesizing full-length cDNA and use thereof.
ACCESSION
BD150226
VERSION
BD150226.1 GI:27855984
KEYWORDS
JP 2002191363-A/5069.
Homo sapiens (human)
SOURCE
Homo sapiens
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
1 (bases 1 to 756)
Ota, T., Iwagai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J.,
Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K. and Otsuki, T.
Primer for synthesizing full-length cDNA and use thereof
Patent: JP 2002191363-A 5069 09-JUL-2002;
JOURNAL

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COMMENT
OS Homo sapiens (human)
PN JP 2002191363-A/5069
PD 09-JUL-2002
PF 28-JUL-2000 JP 2000280990
PI TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, KAORU
PI JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAYATSU,
PI KENICHI NAGAI, TETSUJI OTSUKI
PC C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/ PC
10, C12P21/02, C12Q1/68//C12P21/08, G06F17/30, C12N15/00, C12N5/00 CC
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FT Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="genomic DNA"
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FEATURES
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Alignment Scores:
Pred. No.: 6, 12e-109 Length: 756
Score: 120.00 Matches: 200
Percent Similarity: 98.04% Mismatches: 2
Best Local Similarity: 98.04% Indels: 4
Query Match: 39.60% Gaps: 0
DB: 6

US-10-047-021-86 (1-303) x BD150226 (1-756)

QY 1 MetGlySerGlyGlyValSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeu 20
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QY 21 LeuLeuMetGlyGlyMetAlaGlnAspSerProProGlnIleLeuValHisProGlnAsp 40
DB 100 CTCATCATGGGAGGAGCATGGCTCAGAGCTCCCGGCCAGATCTAGTCCACCCCGAGGAC 159

QY 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProPr 60
DB 160 CAGCTGTTCCAGGGCCCTGGCCCTGCCAGGATGAGTGCCCA-AGCCTCAGGCGAGCCACC 218

QY 60 oProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHi 80
DB 219 TCCACCATCCGCTGGTGTGTAATGGGCGAGCCCTGAGCATGTGCTGCCCGAGCCACCA 278

QY 80 ShisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHi 100
DB 279 CCACCTCTGCTGATGGAGCCCTCTGCTGCTACAGCCCTCCCGGGGACATGCCCA 338

QY 100 sAspGlyGlnAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLe 120
DB 339 CGATGGCCAGGCCCTGTCCACAGACCTGGGTGTCTACACATGTGAGGCCAGCAACCGCT 398

QY 120 uGlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGl 140
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QY 140 nIleGlnProArgAspMetValAlaValValGlyGlnPheThrLeuGluCysGlyPr 160
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QY 160 oProTrpGlyHisProGluProThrValSerTrpTrpLysAspGly-LysProLeuAlaL 180
DB 519 GCCCTGGGGCCACCCAGAGCCACAGTCTCATGTGTGGAAGATCA-GAAACCCCTGGCCC 577

QY 180 euGlnProGlyArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLys 200
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QY 200 erAspGlu 202
DB 638 GTGACGAA 645

RESULT 7
AX883179
LOCUS AX883179
DEFINITION Sequence 18084 from Patent EP1074617.
ACCESSION AX883179
VERSION AX883179.1
KEYWORDS GI:40030800
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Ota, T., Isogai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J.,
Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K. and Otsuki, T.
TITLE Primers for synthesizing full-length cDNA and their use
JOURNAL Patent: EP 1074617-A 18084 07-FEB-2001;
Research Association for Biotechnology (JP)
FEATURES
Location/Qualifiers
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RAARYLDEPDYTEPEVILLAVRIOLENVTLLNPPDARGPKERPAVWLWVKVSGPAAP
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Alignment Scores:
Pred. No.: 2, 65e-108 Length: 4262
Score: 120.00 Matches: 263
Percent Similarity: 97.77% Mismatches: 0
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Query Match: 39.60% Gaps: 0
DB: 6

US-10-047-021-86 (1-303) x AX883179 (1-4262)

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DB 100 CTCATCATGGGAGGAGCATGGCTCAGAGCTCCCGGCCAGATCTAGTCCACCCCGAGGAC 159

QY 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProPr 60
DB 160 CAGCTGTTCCAGGGCCCTGGCCCTGCCAGGATGAGTGCCCA-AGCCTCAGGCGAGCCACC 218

QY 60 oProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHi 80
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 Db 339 CGATGCCAGCCCTGTCACACCTGGTGTCTACACATGTGAGCCGAGCAACCGGCT 398
 QY 120 uGlyThrAlaValSerArgGlyAlaAargLeuSerValAlaValLeuAargGluAspPheG 140
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 QY 200 erAspGlu***-ThrTyMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArg 219
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BD012213 4262 bp DNA linear PAT 02-AUG-2002
 LOCUS Novel genes encoding protein kinase or protein phosphatase.
 DEFINITION BD012213
 ACCESSION BD012213
 VERSION BD012213.1 GI:22092402
 KEYWORDS WO 0109345-A/11.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 4262)
 Ota,i., Isogai,T., Nishikawa,T., Hayashi,K., Saito,K., Yamamoto,J.,
 Ishii,S., Sugiyama,T., Wakamatsu,A., Nagai,K., Otsuki,T.,
 Funahashi,S., Seno,C. and Nezu,J.
 Novel genes encoding protein kinase or protein phosphatase
 Patent: WO 0109345-A 11 08-FEB-2001;
 HELIX RESEARCH INSTITUTE, TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA,
 KOJI HAYASHI, KAORU SAITO, JUNICHI YAMAMOTO, SHIZUKO ISHII, OMOYASU
 SUGIYAMA, AI WAKAMATSU, KEIICHI NAGAI, TETSUJI OTSUKI, SHINICHI
 FUNAHASHI, HIAKI SENO, JUNICHI NEZU
 OS Homo sapiens (human)
 PN WO 0109345-A/11
 PD 08-FEB-2001
 PF 28-JUL-2000 WO 2000JP005060
 PR 29-JUL-1999 JP 99P 248036, 11-JAN-2000 JP 00P 118776 PR
 CR 02-MAY-2000 JP 00P 183767, 18-OCT-1999 US 60/159590 PR
 17-FEB-2000 US 60/183322
 PI TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, PI
 KAORU SAITO,
 PI JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAMATSU,
 PI KEIICHI NAGAI, TETSUJI OTSUKI, SHINICHI FUNAHASHI, CHIYAKI SENO,

PI JUNICHI NEZU
 PC C12N15/54, C12N15/55, C12N9/12, C12N9/16, C12N5/10, C12N1/21 PC
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 Pred. No.: 2.65e-108 Length: 4262
 Score: 120.00 Matches: 263
 Percent Similarity: 97.77% Conservative: 0
 Best Local Similarity: 97.77% Mismatches: 3
 Query Match: 29.60% Indels: 6
 DB: Gaps: 0
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 QY 21 LeuIleMetGlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAsp 40
 Db 100 CTCATCATGGGAGGATGGCTCAGACTCCCGCCCGAGATCTAGTCCACCCCGAGAC 159
 QY 41 GlnLeuPheGlnGlyProGlyProAlaAargMetSerCysArg-AlaSerGlyGlnProPr 60
 Db 160 CAGCTGTTCAGGGCCCTGGCCCTCCAGGATGAGTGCCTCA-AGCCTCAGGCCACCCACC 218
 QY 60 oProThrIleArgTrpLeuLeuAasnGlyGlnProLeuSerMetValProProAspProHi 80
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 QY 80 sHisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaAargGlyHisAlaHi 100
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 QY 100 sAspGlyGlnAlaLeuSerThrAspLeuGlyValTyThrCysGluAlaSerAsnArgLe 120
 Db 339 CGATGCCAGCCCTGTCACACCTGGTGTCTACACATGTGAGCCGAGCAACCGGCT 398
 QY 120 uGlyThrAlaValSerArgGlyAlaAargLeuSerValAlaValLeuAargGluAspPheG 140
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 QY 200 erAspGlu***-ThrTyMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArg 219
 Db 638 GTGACGAAGG-GACCTTACATGTGTGGGCCACCAACGCGCAGGACACAGGAGAGCCGC 696
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 QY 240 ValArgIleGlnLeuGluAasnValThrLeuLeuAasnProAspProAlaGluGlyProLys 259

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Db      757 GTGCCAAATTCAGCTGGAAAATGTGACACTGCTGAACCCGAGTCTTGCAGAGGGCCCCAAG 816
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LOCUS   BD160172
DEFINITION Primer for synthesizing full-length cDNA and use thereof.
ACCESSION BD160172
VERSION   BD160172.1 GI:27865930
KEYWORDS JP 2002191363-A/15015.
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Ota, T., Isogai, T., Nishikawa, T., Hayashi, K., Saito, K., Yamamoto, J., Ishii, S., Sugiyama, T., Wakamatsu, A., Nagai, K. and Otsuki, T.
TITLE    Primer for synthesizing full-length cDNA and use thereof
JOURNAL  HELIX RESEARCH INSTITUTE
COMMENT   Patent: JP 2002191363-A 15015 09-JUL-2002;
          OS Homo sapiens (human)
          PN JP 2002191363-A/15015
          PD 09-JUL-2002
          PF 28-JUL-2000 JP 2000280990
          PI TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, KAORU SAITO, JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAMATSU, PI KEIICHI NAGAI, TETSUJI OTSUKI
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Pred. No.:      2,65e-108      Length:      4262
Score:          120.00      Matches:      263
Percent Similarity: 97.77%      Conservative: 0
Best Local Similarity: 97.77%      Mismatches: 3
Query Match:    39.60%      Indels:      6
DB:             6      Gaps:      0

US-10-047-021-86 (1-303) x BD160172 (1-4262)

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Qy      21 LeuLeuMetGlyGlyMetAlaGlnAspSerProProGlnLeuValHisProGlnAsp 40
Db      100 CTCATCATGGAGGAGCATGCTCAGAGCTCCCGCCGAGATCTTAGTCCACCCCGAGGAC 159
Qy      41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProPr 60
Db      160 CAGCTGTTCACGGGCGCTGGCCCTGCCAGATGAGCTGCCA-AGCCCTCAGGCCACGCCACC 218
Qy      60 oProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHi 80
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Db      339 CGATGGCCAGGCGCTGTCCACAGACCTGGGTCTCTACACATGTGAGGCCAGCACCGGCT 398
Qy      120 uGlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheG1 140
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Qy      140 nIleGlnProArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyPr 160
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Qy      160 oProTrpGlyHisProGluProThrValSerTrpTrpLysAspGly-LysProLeuAlaL 180
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Qy      180 euGlnProGlyArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysS 200
Db      578 TCCAGCCCGGAGGACACACAGTGTCCGGGGGTCTCTGCTGATGGCAAGAGCAGAGAGA 637
Qy      200 erAspGlu***-ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArg 219
Db      638 GTGACGAGG-GACCTACATGTGTGTGGCCACCAACAGCCAGGACACAGGAGAGCGCC 696
Qy      220 AlaAlaActValSerIleGlnProGlnAspTyrThrGluProValGluLeuLeuAla 239
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Qy      240 ValArgIleGlnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLys 259
Db      757 GTGCGAATTCAGCTGGAAAATGTGACACTGCTGAACCCCGATCTCTGAGAGGGCCCCAAG 816
Qy      260 ProArgProAlaValTrpLeu 266
Db      817 CCTAGACCCGGCGGTGGCTC 837

RESULT 10
LOCUS   AK027852
DEFINITION Homo sapiens cDNA FLJ14946 f18, clone PLACE2000034, weakly similar to LAR PROTEIN PRECURSOR (EC 3.1.1.3.48).
ACCESSION AK027852
VERSION   AK027852.1 GI:14042831
KEYWORDS oligo capping; f18 (full insert sequence).
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 Isogai, T., Ota, T., Hayashi, K., Sugiyama, T., Otsuki, T., Suzuki, Y., Nishikawa, T., Nagai, K., Sugano, S., Takahashi-Fujii, A., Hara, H., Tanase, T., Nomura, Y., Togiya, S., Komai, F., Hara, R., Takeuchi, K., Arita, M., Nabekura, T., Ishii, S., Kawai, Y., Saito, K., Yamamoto, J., Wakamatsu, A., Nakamura, Y., Nagehara, K., Masuho, Y. and Oshima, A.
NEDO human cDNA sequencing project
Unpublished
2 (bases 1 to 4262)
Isogai, T. and Otsuki, T.
Direct Submission
Submitted (10-MAY-2001) Takao Isogai, Helix Research Institute, Genomics Laboratory; 1532-3 Yana, Kisarazu, Chiba 292-0812, Japan (E-mail: genomics@hri.co.jp, Tel: 81-438-52-3975, Fax: 81-438-52-3986)
NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing: Research Association for Biotechnology; cDNA library construction: 5'- & 3'- end one pass sequencing and clone selection: Helix Research Institute (supported by Japan Key Technology Center etc.) and Department of Virology, Institute of Medical Science, University of Tokyo.

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Score:	120.00	Matches:	263
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Query Match:	39.60%	Indels:	6
DB:	9	Gaps:	0
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Qy	1	MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeu 20	
Db	40	ATGGGCTCTGAGAGACAGAGCTCTGGGGGAGAGGGTTCCTGCTCTGCTCTGCTG 99	
Qy	21	LeuLeuMetGlyMetAlaGlnAspSerProProGlnLeuLeuValHisProGlnAsp 40	
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Qy	60	oProThrileArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHi 80	
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Qy	120	uGlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGl 140	
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Qy	140	nileGlnProArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyPr 160	
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Db	519	GCCTTGGGGCCACCAGAGCCACAGTCTCTGTTGGTGAAGATGA-GAAACCCCTGGGCC 577	
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Qy	220	AlaAlaArgValSerIleGlnGluProGlnAspTyThrGluProValGluLeuAla 239	
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Qy	240	ValArgIleGlnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLys 259	
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Db	817	CCTAGACGGCGGTGTGGCTC 837	
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DEFINITION	Homo sapiens, clone IMAGE:4850025, mRNA.		
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VERSION	BC014995.1	GI:21955407	
KEYWORDS	Homo sapiens (human)		
SOURCE	Homo sapiens		
ORGANISM	Homo sapiens		
REFERENCE	1 (bases 1 to 3467)		
AUTHORS	Strausberg,R.		
TITLE	Direct Submission		
JOURNAL	Submitted (01-OCT-2001) National Institutes of Health, Mammalian		
	Gene Collection (MGC), Cancer Genomics Office, National Cancer		
	Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,		
	USA		
REMARK	NIH-MGC Project URL: http://mgc.nci.nih.gov		
COMMENT	Contact: MGC help desk		
	Email: cgabbs@mail.nih.gov		
	Tissue Procurement: Dr. Mark Watson		
	cDNA Library Preparation: Rubin Laboratory		
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)		
	DNA Sequencing by: Genome Sequence Centre,		
	BC Cancer Agency, Vancouver, BC, Canada		
	info@bcsc.bc.ca		
	Steven Jones, Jennifer Asano, Ian Bosdet, Yaron Butterfield,		
	Susanna Chan, Readman Chiu, Chris Fjell, Erin Garland, Ran Guin,		
	Leticia Hsiao, Martin Krzywinski, Reta Kutsche, Oliver Lee, Soo		
	Sen Lee, Victor Ling, Carrie Mathewson, Candice McLeavy, Steven		
	Ness, Pawan Pandoh, Anna-Liisa Prabhhu, Parvaneh Saeedi, Jacqueline		
	Schein, Duane Smailus, Michael Smith, Lorraine Spence, Jeff Stott,		
	Michael Thorne, Miranada Tsai, Natasja van den Bosch, Jill Vardy,		
	George Yang, Scott Zuyderduyn, Marco Marra.		
	Clone distribution: MGC clone distribution information can be found		
	through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov		
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 DB: 9 Gaps: 0

US-10-047-021-86 (1-303) x BC014995 (1-3467)

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 DB 2 CCGATGGGACCCCTTCTGCTACAGCCCTGCGCGGGACATGCCACGATGGCCAG 61
 QY 104 AlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeuGlyThrAla 123
 DB 62 GCCCTGTCCACAGACCTGGGTGTCTACATGTGAGGCCACGACCGCTTGGCAGGCA 121
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 QY 204 -ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgVa 223
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 QY 243 nLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProAspProAl 263
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 DB 541 GGTGTGGCTC 550

RESULT 12
 LOCUS AP003501 186971 bp DNA linear PRI 08-MAR-2002
 DEFINITION Homo sapiens genomic DNA, chromosome 11q, clone:RP11-664121, complete sequence.
 ACCESSION AP003501
 VERSION AP003501.2 GI:19263048
 KEYWORDS HTG.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1
 AUTHORS Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P., Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.
 TITLE Homo sapiens genomic DNA
 JOURNAL Published Only in Database (2001)
 REFERENCE 2 (bases 1 to 186971)
 AUTHORS Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P., Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.
 TITLE Direct Submission
 JOURNAL Submitted (11-APR-2001) Masahira Hattori, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC);

1-7-22 Suehiro-chou,Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
 (E-mail:hattori@gsc.riken.go.jp, URL:http://hgp.gsc.riken.go.jp/,
 Tel:81-45-503-9111, Fax:81-45-503-9170)
 On Mar 7, 2002 this sequence version replaced gi:13603460.

FEATURES

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ORIGIN

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 Query Match: 26.07% Indels: 2
 DB: 9 Gaps: 0

US-10-047-021-86 (1-303) x AP003501 (1-186971)

QY 24 GlyGlyMetAlaGlnAspSerProProGlnIleLeuValHisProGlnAspGlnLeuPhe 43
 DB 32342 GGAGGCGATGGCTCAGACTCCCGCCCGCAGATCTAGTCCACCCGACGACGTGTTTC 32283
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 QY 103 nAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeuGlyThrAl 123
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RESULT 13

LOCUS AK074163 4694 bp mRNA linear PRI 15-FEB-2002
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 VERSION AK074163.1 GI:18676673
 KEYWORDS fis (full insert sequence).
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1
 AUTHORS Jikuya,H., Takano,J., Nomura,N., Kikuno,R., Nagase,T. and Ohara,O.
 TITLE The nucleotide sequence of a long cDNA clone isolated from human spleen
 JOURNAL Published Only in Database (2002)
 REFERENCE 2 (bases 1 to 4694)
 AUTHORS Jikuya,H., Takano,J., Nomura,N., Kikuno,R., Nagase,T. and Ohara,O.
 TITLE Direct Submission
 JOURNAL Submitted (21-JAN-2002) Takahiro Nagase, Kazusa DNA Research Institute, Department of Human Gene Research; 1532-3, Yana, Kisarazu, Chiba 292-0812, Japan (E-mail:cdmainfo@kazusa.or.jp, URL:http://www.kazusa.or.jp/NEDO, Tel:81-438-52-3913, Fax:81-438-52-3914)
 COMMENT NEDO human cDNA sequencing project supported by Ministry of

Economy, Trade and Industry of Japan; cDNA full insert and 5'- & 3'-end one pass sequencing; Research Association for Biotechnology; cDNA library construction and clone selection; Kazusa DNA Research Institute.

FEATURES

Location/Qualifiers

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Gene

CDS

ORIGIN

Alignment Scores:
Pred. No.: 9.4e-58 Length: 4694
Score: 69.00 Matches: 132
Percent Similarity: 98.51% Conservative: 0
Best Local Similarity: 98.51% Mismatches: 1
Query Match: 22.77% Indels: 2
DB: 9 Gaps: 0

US-10-047-021-86 (1-303) x AK074163 (1-4694)

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Qy 154 PheThrLeuGluCysGlyProProTrpGlyHisProGluProThrValSerTyrTrpIys 173
Db 130 TTTACTCTGGAATGTGGGCGCCCTCGGCGCCACCCAGAGCCACAGTCTCATGTGGTGA 189
Qy 174 AspGlyLysProLeuAlaGlnProGlyArgHisThrValSerGlyLysLeuLeu 193
Db 190 GATGGGAACCCCTGGCCCTTCAGCCCGAGAGGACACAGTGTCCGGGGGTCCTGCTG 249
Qy 194 MetAlaArgAlaGluLysSerAspGlu*** ThrTyrMetCysValAlaThrAsnSerAl 213
Db 250 ATGGCAAGCAGACAGAGTGAACAGG-GACCTACATGTGTGTGGCCACCAACAGCGC 308
Qy 213 aGlyHisArgGluSerArgAlaAlaArgValSerIleGlnGluProGlnAspTyrThrGl 233
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Db 369 GCCTGTGGAGCTTCTGGCTGTGGCAATTCAGCTGGAAATGTGACACTGCTGAACCGGA 428
Qy 253 pProAlaGluGlyProLysProArgProAlaValTrpLeu 266

Db 429 TCCTGACGAGGGCCCCAAGACCTAGACCGCGGTGTGCTC 468

RESULT 14

BD204437

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

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PN

PD

PF

PR

JEAN BAPTISTE DUMAS

GIORDANO

PC

PC

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SOURCE Rattus norvegicus (Norway rat)
 ORGANISM Rattus norvegicus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.

REFERENCE 1 (bases 1 to 2886)
 AUTHORS Roberts, K.G. and Stewart, L.M.
 TITLE Direct Submission
 JOURNAL Submitted (15-APR-2003) CRT Development Laboratory, Cancer Research
 Technology, Suite 23, Dominion House, 59 Bartholomew Close, London,
 England EC1A 7BE, United Kingdom

FEATURES
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variation
 variation
 variation

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US-10-047-021-86 (1-303) x AY277635 (1-2886)
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 Qy 129 ArgLeuSerValAlaValLeu 135
 Db 418 AGCTGTCTGTGGCTGTCTCTC 438

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 Job time: 4490 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: February 29, 2004, 08:17:17 ; Search time 52 Seconds
(without alignments)

1230.374 Million cell updates/sec

Title: US-10-047-021-86

Perfect score: 303

Sequence: 1 MGSGGSLGGRGSLPLLL.....SGPRLPREARELGRQRRNTG 303

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 809742 seqs, 211153259 residues

Word size : 0

Total number of hits satisfying chosen parameters: 809742

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications AA:*

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- 18: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	300	99.0	303	15	US-10-047-021-86
2	300	99.0	304	14	US-10-411-224-86
3	148	48.8	480	10	US-09-796-753-158
4	148	48.8	985	9	US-09-978-295A-211
5	148	48.8	985	9	US-09-978-697-211
6	148	48.8	985	9	US-09-978-192A-211
7	148	48.8	985	9	US-09-999-832A-211
8	148	48.8	985	10	US-09-978-189-211
9	148	48.8	985	10	US-09-978-608A-211
10	148	48.8	985	10	US-09-978-585A-211
11	148	48.8	985	10	US-09-978-191A-211
12	148	48.8	985	10	US-09-978-403A-211
13	148	48.8	985	10	US-09-978-564A-211
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15	148	48.8	985	10	US-09-981-915A-211

16	148	48.8	985	10	US-09-978-824-211
17	148	48.8	985	10	US-09-918-585A-211
18	148	48.8	985	10	US-09-978-423A-211
19	148	48.8	985	10	US-09-978-193A-211
20	148	48.8	985	10	US-09-999-830A-211
21	148	48.8	985	10	US-09-978-757A-211
22	148	48.8	985	10	US-09-978-187B-211
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25	148	48.8	985	10	US-09-978-298A-211
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34	148	48.8	985	14	US-10-017-081A-211
35	148	48.8	985	14	US-10-167-749-211
36	148	48.8	985	14	US-10-013-921A-211
37	148	48.8	985	14	US-10-013-929A-211
38	148	48.8	985	14	US-10-016-177A-211
39	148	48.8	985	14	US-10-166-709A-211
40	148	48.8	985	14	US-10-143-031A-211
41	148	48.8	985	14	US-10-143-030A-211
42	148	48.8	985	14	US-10-002-967A-211
43	148	48.8	985	14	US-10-017-083A-211
44	148	48.8	985	14	US-10-145-128A-211
45	148	48.8	985	14	US-10-017-191A-211

ALIGNMENTS

RESULT 1
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; Sequence 86, Application US/10047021
; Publication No. US20040002591A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 50 Human Secreted Proteins
; FILE REFERENCE: P2016P2
; CURRENT APPLICATION NUMBER: US/10/047,021
; CURRENT FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: US 60/262,066
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: US 09/722,329
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 09/262,109
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/18360
; PRIOR FILING DATE: 1998-09-03
; PRIOR APPLICATION NUMBER: US 60/057,626
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: US 60/057,663
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: US 60/057,669
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: US 60/058,667
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: US 60/058,974
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: US 60/058,973
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: US 60/058,666
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: US 60/090,112
; PRIOR FILING DATE: 1998-06-22
; NUMBER OF SEQ ID NOS: 206
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 86
; LENGTH: 303

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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (203)
; OTHER INFORMATION: Xaa equals any amino acid
; NAME/KEY: SITE
; LOCATION: (267)
; OTHER INFORMATION: Xaa equals any amino acid
; NAME/KEY: SITE
; LOCATION: (274)
; OTHER INFORMATION: Xaa equals any amino acid
US-10-047-021-86

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Best Local Similarity 100.0%; Pred. No. 3.9e-262;
Matches 303; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 PTIRWLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAHQALSTDLGVYTCASNRL 120
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Db 121 GTAVSRGARLSVAVLRDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWKDGKPLAL 180
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Db 181 QPGRHTVSGSLLMARAESKDEXTYMCVATNSAGHRESRAARVSIQEPQDYTEPVELLAV 240
QY 241 RIQLENVTLNPDPAEGPKPRPAVWLXWKVSGPXRLPNLTRPCSGPRLPREARELRGQR 300
Db 241 RIQLENVTLNPDPAEGPKPRPAVWLXWKVSGPXRLPNLTRPCSGPRLPREARELRGQR 300
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Db 301 NTG 303

RESULT 2
US-10-041-224-86
; Sequence 86, Application US/10411224
; Publication No. US20030166906A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 50 Human Secreted Proteins
; FILE REFERENCE: PZ016P1
; CURRENT APPLICATION NUMBER: US/10/411,224
; CURRENT FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: US/09/722,329
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 09/262,109
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: 60/057,626
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: 60/057,663
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: 60/057,669
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: 60/058,667
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; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/058,973
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/058,666
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/090,112
; PRIOR FILING DATE: 1998-06-22

; NUMBER OF SEQ ID NOS: 206
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 86
; LENGTH: 304
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (203)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (267)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (274)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-10-411-224-86

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Best Local Similarity 100.0%; Pred. No. 3.9e-262;
Matches 303; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 181 QPGRHTVSGSLLMARAESKDEXTYMCVATNSAGHRESRAARVSIQEPQDYTEPVELLAV 240
QY 241 RIQLENVTLNPDPAEGPKPRPAVWLXWKVSGPXRLPNLTRPCSGPRLPREARELRGQR 300
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RESULT 3
US-09-796-753-158
; Sequence 158, Application US/09796753
; Publication No. US20030027998A1
; GENERAL INFORMATION:
; APPLICANT: McCarthy, Sean A.
; TITLE OF INVENTION: SECRETED PROTEINS AND USES THEREOF
; FILE REFERENCE: 7853-227-999
; CURRENT APPLICATION NUMBER: US/09/796,753
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: 09/183,175
; PRIOR FILING DATE: 1998-10-30
; PRIOR APPLICATION NUMBER: 09/223,094
; PRIOR FILING DATE: 1998-12-30
; PRIOR APPLICATION NUMBER: 09/223,546
; PRIOR FILING DATE: 1998-12-30
; PRIOR APPLICATION NUMBER: 09/224,246
; PRIOR FILING DATE: 1998-12-30
; PRIOR APPLICATION NUMBER: 09/259,388
; PRIOR FILING DATE: 1999-02-26

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; PRIOR APPLICATION NUMBER: 60/122,458
; PRIOR FILING DATE: 1999-03-01
; PRIOR APPLICATION NUMBER: 09/312,359
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 09/336,536
; PRIOR FILING DATE: 1999-06-18
; PRIOR APPLICATION NUMBER: 09/342,687
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: 09/345,464
; PRIOR FILING DATE: 1999-06-30
; PRIOR APPLICATION NUMBER: 09/365,164
; PRIOR FILING DATE: 1999-07-30
; PRIOR APPLICATION NUMBER: 09/399,723
; PRIOR FILING DATE: 1999-09-20
; PRIOR APPLICATION NUMBER: 09/409,634
; PRIOR FILING DATE: 1999-09-30
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; PRIOR FILING DATE: 1999-12-23
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; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/474,072
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 09/514,010
; PRIOR FILING DATE: 2000-02-25
; PRIOR APPLICATION NUMBER: 09/516,745
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 09/572,002
; PRIOR FILING DATE: 2000-05-14
; PRIOR APPLICATION NUMBER: 09/597,993
; PRIOR FILING DATE: 2000-06-19
; PRIOR APPLICATION NUMBER: 09/599,596
; PRIOR FILING DATE: 2000-06-22
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; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: 09/606,565
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: 09/606,317
; PRIOR FILING DATE: 2000-06-29
; PRIOR APPLICATION NUMBER: 09/665,666
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: 09/677,751
; PRIOR FILING DATE: 2000-09-30
; NUMBER OF SEQ ID NOS: 162
; SEQ ID NO 158
; LENGTH: 480
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-796-753-158

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Best Local Similarity 100.0%; Pred. No. 6.le-125;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 115 EASNRLGTAVSRGARLSVAVLREDFQIPRDMVAVGEGFTLECGPPWGHPEPTVSWWKD 174
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Db 146 EASNRLGTAVSRGARLSVAVLREDFQIPRDMVAVGEGFTLECGPPWGHPEPTVSWWKD 205
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Qy 175 GKPLAQGRHTVSGSLLMARAEKSD 202
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RESULT 4
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; Sequence 211, Application US/09978295A
; Patent No. US2002015606A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
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; APPLICANT: Botstein, David
; APPLICANT: Desnuyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C11
; CURRENT APPLICATION NUMBER: US/09/978,295A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1998-05-15	
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PRIOR APPLICATION NUMBER: 60/085573	
PRIOR FILING DATE: 1998-05-15	
PRIOR APPLICATION NUMBER: 60/085704	
PRIOR FILING DATE: 1998-05-15	
PRIOR APPLICATION NUMBER: 60/085697	

Query Match 48.8%; Score 148; DB 9; Length 985;

Best Local Similarity 100.0%; Pred. No. 1.1e-124;
Matches 148: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

Qy	55	ASGQPPPTIRWLLNGQPLSMVPPDP	PHLLPDGFTLLQLLPARGAHDDGQALSTDLGVYTC	114
Db	33	ASGQPPPTIRWLLNGQPLSMVPPDP	PHLLPDGFTLLQLLPARGAHDDGQALSTDLGVYTC	92
Qy	115	EASNRLGTAVSRGARLSVAVLR	REDFOIQPRDMVAVVGEQFTTLECGPPWGHGPPFTVSWWKD	174
Db	93	EASNRLGTAVSRGARLSVAVLR	REDFOIQPRDMVAVVGEQFTTLECGPPWGHGPPFTVSWWKD	152
Qy	175	GKPLAQFGRHTVSGSILLMARAEK	SDSDE	202
Db	153	GKPLAQFGRHTVSGSILLMARAEK	SDSDE	180

RESULT 5

US-09-978-697-211
; Sequence 211, Application US/09978697
; Patent No. US20020169284A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi

APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara Napoleon
APPLICANT: Fliviaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Pacini, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C27
CURRENT APPLICATION NUMBER: US/09/978,697
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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 ; PRIOR APPLICATION NUMBER: 60/085704
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085697

Query Match 48.8%; Score 148; DB 9; Length 985;
 Best Local Similarity 100.0%; Pred. No. 1.1e-124;
 Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 55 ASGQPPPTIRWLNQPLSVPPDPHLLPDGTLLLLQPPARGHAGDQALSTDLGVYTC 114
 Db 33 ASGQPPPTIRWLNQPLSVPPDPHLLPDGTLLLLQPPARGHAGDQALSTDLGVYTC 92
 Qy 115 EASNRLGTAVSRGRLSVAVLRDEFQIQPRDMVAVVGEQFTLSCGPPWGHPEPTVSWKD 174
 Db 93 EASNRLGTAVSRGRLSVAVLRDEFQIQPRDMVAVVGEQFTLSCGPPWGHPEPTVSWKD 152
 Qy 175 GKPLAQFGRHTVSGSLLMARAESKDE 202
 Db 153 GKPLAQFGRHTVSGSLLMARAESKDE 180

RESULT 6
 US-09-978-192A-211
 ; Sequence 211, Application US/09978192A
 ; Patent No. US20020177553A1
 ; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Deenoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
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 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: P2630P1C9
 ; CURRENT APPLICATION NUMBER: US/09/978,192A
 ; CURRENT FILING DATE: 2001-10-15
 ; PRIOR APPLICATION NUMBER: 09/918585
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; PRIOR APPLICATION NUMBER: 60/085573
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
;
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 48.8%; Score 148; DB 9; Length 985;
Best Local Similarity 100.0%; Pred. No. 1.1e-124;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 ASQCPTTIRWLLNGQPLSNVPPDPHLLPDGTLLILQPPARGHADGQALSTDLGVYTC 114
DQ 33 ASQCPTTIRWLLNGQPLSNVPPDPHLLPDGTLLILQPPARGHADGQALSTDLGVYTC 92
QY 115 EASNRLGTAVSRGARSVAVLREDFOIQPRDMVAVVGEQFTLECGPPWGHDPPTVSWWKD 174
DQ 93 EASNRLGTAVSRGARSVAVLREDFOIQPRDMVAVVGEQFTLECGPPWGHDPPTVSWWKD 152

QY 175 GKPLALQPGRHVTSGGSLIMARAESDE 202
DQ 153 GKPLALQPGRHVTSGGSLIMARAESDE 180

RESULT 7
US-09-999-832A-211
; Sequence 211, Application US/09999832A
; Publication No. US20020192706A1

GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
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APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630PIC63
CURRENT APPLICATION NUMBER: US/09/999,832A
CURRENT FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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PRIOR FILING DATE: 1998-04-29									
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Query Match 48.8%; Score 148; DB 9; Length 985;									
Best Local Similarity 100.0%; Pred. No. 1.1e-124; Mismatches 0; Indels 0; Gaps 0;									
Matches 148; Conservative 0;									
QY	55	ASGQPPPTIRLLNGPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDLGVYTC	114						
Db	33	ASGQPPPTIRLLNGPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDLGVYTC	92						
QY	115	EASNRLGTAVSRCARLSAVLREDFOIQPRDMVAVVGEQFTLECGPPMGHPPTVSWWKD	174						
Db	93	EASNRLGTAVSRCARLSAVLREDFOIQPRDMVAVVGEQFTLECGPPMGHPPTVSWWKD	152						
QY	175	GKPLAQGRHVTSGGSLMARAESKDE	202						
Db	153	GKPLAQGRHVTSGGSLMARAESKDE	180						

RESULT 8
US-09-978-189-211
; Sequence 211, Application US/09978189

Publication No. US20030004102A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630PIC7
CURRENT APPLICATION NUMBER: US/09/978,189
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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PRIOR FILING DATE: 1997-11-03
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PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
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PRIOR FILING DATE: 1998-03-12
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 / PRIOR APPLICATION NUMBER: 60/085697

Query Match 48.8%; Score 148; DB 10; Length 985;

Best Local Similarity 100.0%; Pred.No. 1.1e-124;

Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAGDQALSTDLGYTC 114

Db 33 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAGDQALSTDLGYTC 92

QY 115 EASNRLGTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 174

Db 93 EASNRLGTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 152

QY 175 GKPLALQPRHTVSGGSLLMARAEKSD 202

Db 153 GKPLALQPRHTVSGGSLLMARAEKSD 180

RESULT 9

US-09-978-608A-211

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; Sequence 211, Application US/09978608A
; Publication No. US20030045462A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C22
; CURRENT APPLICATION NUMBER: US/09/978,608A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 211
; LENGTH: 985
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-608A-211

Query Match 48.8%; Score 148; DB 10; Length 985;
Best Local Similarity 100.0%; Pred. No. 1.1e-124;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 55 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDGLGYTC 114
Db 33 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDGLGYTC 92

Qy 115 EASNRLGTAVSGRGLSVAVLRDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 174
Db 93 EASNRLGTAVSGRGLSVAVLRDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 152

Qy 175 GKPLALQPGRHVTSGGSLIMARAESKDE 202
Db 153 GKPLALQPGRHVTSGGSLIMARAESKDE 180

RESULT 10
US-09-978-585A-211
; Sequence 211, Application US/09978585A
; Publication No. US20030049633A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C15
; CURRENT APPLICATION NUMBER: US/09/978,585A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 211
; LENGTH: 985
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-585A-211

Query Match 48.8%; Score 148; DB 10; Length 985;
Best Local Similarity 100.0%; Pred. No. 1.1e-124;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 55 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDGLGYTC 114
Db 33 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDGLGYTC 92

Qy 115 EASNRLGTAVSGRGLSVAVLRDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 174
Db 93 EASNRLGTAVSGRGLSVAVLRDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 152

Qy 175 GKPLALQPGRHVTSGGSLIMARAESKDE 202
Db 153 GKPLALQPGRHVTSGGSLIMARAESKDE 180

RESULT 11
US-09-978-191A-211
; Sequence 211, Application US/09978191A
; Publication No. US20030050239A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C15
; CURRENT APPLICATION NUMBER: US/09/978,585A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 211
; LENGTH: 985
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-585A-211

Query Match 48.8%; Score 148; DB 10; Length 985;
Best Local Similarity 100.0%; Pred. No. 1.1e-124;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 55 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDGLGYTC 114
Db 33 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDGLGYTC 92

Qy 115 EASNRLGTAVSGRGLSVAVLRDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 174
Db 93 EASNRLGTAVSGRGLSVAVLRDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 152

Qy 175 GKPLALQPGRHVTSGGSLIMARAESKDE 202
Db 153 GKPLALQPGRHVTSGGSLIMARAESKDE 180
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APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630PIC4
CURRENT APPLICATION NUMBER: US/09/978,191A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
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PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
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PRIOR APPLICATION NUMBER: 60/078004
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/ PRIOR APPLICATION NUMBER: 60/084639
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 / PRIOR FILING DATE: 1998-05-15
 / PRIOR APPLICATION NUMBER: 60/085704
 / PRIOR FILING DATE: 1998-05-15
 / PRIOR APPLICATION NUMBER: 60/085697

Query Match 48.8%; Score 148; DB 10; Length 985;

Best Local Similarity 100.0%; Pred. No. 1.1e-124; Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 ASGQPPPTIRWLLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAHQALSTDLGVYTC 114
 DB 33 ASGQPPPTIRWLLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAHQALSTDLGVYTC 92
 QY 115 EASNRLGTAVSRGARLSVAVLREDFQIQPRDMVAVVGQFTLECGPPWGHPEPTVSWMKD 174
 DB 93 EASNRLGTAVSRGARLSVAVLREDFQIQPRDMVAVVGQFTLECGPPWGHPEPTVSWMKD 152
 QY 175 GKPLALQGRHTVSGSLLMARAESKDE 202
 DB 153 GKPLALQGRHTVSGSLLMARAESKDE 180

RESULT 13

US-09-978-564A-211
 / Sequence 211, Application US/09978564A
 / Publication No. US20030050241A1
 / GENERAL INFORMATION:
 / APPLICANT: Ashkenazi, Avi
 / APPLICANT: Baker, Kevin P.
 / APPLICANT: Botstein, David
 / APPLICANT: Desnoyers, Luc
 / APPLICANT: Eaton, Dan
 / APPLICANT: Ferrara, Napoleon
 / APPLICANT: Filvaroff, Ellen
 / APPLICANT: Fong, Sherman
 / APPLICANT: Gao, Wei-Qiang
 / APPLICANT: Gerber, Hanspeter
 / APPLICANT: Gerlitsen, Mary E.
 / APPLICANT: Goddard, Audrey
 / APPLICANT: Godowski, Paul J.
 / APPLICANT: Grimaldi, J. Christopher
 / APPLICANT: Gurney, Austin L.
 / APPLICANT: Hillan, Kenneth J.
 / APPLICANT: Kljavin, Ivar J.

APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C25
CURRENT APPLICATION NUMBER: US/09/978,564A
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918595
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match 48.8%; Score 148; DB 10; Length 985;

Best Local Similarity 100.0%; Pred. No. 1.1e-124; Mismatches 0; Indels 0; Gaps 0;
Matches 148; Conservative 0;

Qy 55 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLTLLLPARGHAHDGQALSTDLGVYTC 114

Db 33 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLTLLLPARGHAHDGQALSTDLGVYTC 92

Qy 115 EASNLGTAVSGARLSAVLREDFOIQPRDMVAVVGSEQTLECGPPWGHPEPTVSNWKD 174

Db 93 EASNLGTAVSGARLSAVLREDFOIQPRDMVAVVGSEQTLECGPPWGHPEPTVSNWKD 152

Qy 175 GKPLALQPGRHTVSGGSLLMARAEKSDE 202

Db 153 GKPLALQPGRHTVSGGSLLMARAEKSDE 180

RESULT 14

US-09-999-833A-211

; Sequence 211, Application US/09999833A

; Publication No. US20030054405A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi

; APPLICANT: Baker Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleon

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth J.

; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC65
; CURRENT APPLICATION NUMBER: US/09/999,833A
; CURRENT FILING DATE: 2001-10-24
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
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; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080194
; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327

Query Match
48.8%; Score 148; DB 10; Length 985;

RESULT 15

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US-09-981-915A-211
; Sequence 211, Application US/09981915A
; Publication No. US20030054986A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.

```

APPLICANT: Hillan, Kenneth J
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630PIC12
CURRENT APPLICATION NUMBER: US/09/981,915A
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
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PRIOR APPLICATION NUMBER: 60/077649
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PRIOR APPLICATION NUMBER: 60/077791
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PRIOR FILING DATE: 1998-03-13
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PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
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PRIOR APPLICATION NUMBER: 60/079294
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PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
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PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
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PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
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PRIOR FILING DATE: 1998-04-09
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PRIOR FILING DATE: 1998-04-15
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PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082700
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
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PRIOR FILING DATE: 1998-04-29
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PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084441

1000
1000.01.00
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084637
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084598
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-05-07
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PRIOR FILING DATE: 1998-05-13
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PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 48.8%; Score 148; DB 10; Length 985;
Best Local Similarity 100.0%; Pred. No. 1.le-124;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 55 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDLGVYTC 114
Db 33 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDLGVYTC 92
Qy 115 EASNRLGTAVSGRGARLSVAVLRDFQIQPRDMVAVGGEQFTLECGPPWGHPEPTVSWWKD 174
Db 93 EASNRLGTAVSGRGARLSVAVLRDFQIQPRDMVAVGGEQFTLECGPPWGHPEPTVSWWKD 152
Qy 175 GKPLALQGRHTVSGSLLMARAEKSDR 202
Db 153 GKPLALQGRHTVSGSLLMARAEKSDR 180

Search completed: February 29, 2004, 08:23:55
Job time : 56 secs

OM protein - protein search, using sw model

Run on: February 29, 2004, 08:16:48 ; Search time 23 Seconds
(without alignments)

Title: US-10-047-021-86
 Perfect score: 303
 Sequence: 1 MGSGGDSLLGGRGSLPLLLL.....SGPRLPREARELRGQRNTG 303

Scoring table: OLIGO

Gapex 60.0 , Gapext 60.0

Searched: 389414 seqs, 51625971 residues

Word size : 0

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : Issued Patents AA:*

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6: /cgn2_6/prodata/2/iaa/backfiles1.pcp.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query		Length	DB	ID	Description
		Match					
1	10	3	3	1209	4	US-09-130-158A-2	Sequence 2, Appli
2		2.6	118	4	US-09-621-976-4124		Sequence 4124, Ap
3	8	2.6	161	4	US-09-673-395A-577		Sequence 577, App
4	8	2.6	189	2	US-08-837-0929-2		Sequence 2, Appli
5	8	2.6	287	4	US-09-800-729-114		Sequence 114, App
6	8	2.6	287	4	US-09-800-729-153		Sequence 153, App
7	8	2.6	330	4	US-09-615-192A-284		Sequence 284, App
8	8	2.6	613	4	US-09-800-729-82		Sequence 82, Appl
9	8	2.6	613	4	US-09-800-729-98		Sequence 98, Appl
10	8	2.6	1501	2	US-08-447-464-3		Sequence 3, Appli
11	8	2.6	1501	2	US-08-716-679-3		Sequence 3, Appli
12	8	2.6	1911	1	US-08-348-006B-5		Sequence 5, Appli
13	8	2.6	1911	2	US-08-800-825A-5		Sequence 5, Appli
14	8	2.6	1911	3	US-09-158-657-5		Sequence 5, Appli
15	8	2.6	1911	5	PCR-US94-10166-5		Sequence 5, Appli
16	7	2.3	15	5	PCR-US93-06751-29		Sequence 29, Appl
17	7	2.3	57	2	US-08-318-837-50		Sequence 50, Appl
18	7	2.3	66	4	US-09-540-236-2630		Sequence 2630, Ap
19	7	2.3	77	3	US-09-246-500B-14		Sequence 14, Appl
20	7	2.3	77	4	US-09-621-976-4010		Sequence 4010, Ap
21	7	2.3	94	4	US-09-858-664A-23		Sequence 23, Appl
22	7	2.3	94	4	US-10-274-978-24		Sequence 24, Appl
23	7	2.3	119	4	US-09-858-664A-30		Sequence 30, Appl
24	7	2.3	119	4	US-10-274-978-31		Sequence 31, Appl
25	7	2.3	126	1	US-08-278-852-142		Sequence 142, App
26	7	2.3	126	1	US-08-899-575-142		Sequence 142, App
27	7	2.3	126	1	US-08-899-575-142		Sequence 142, App

28	7	2, 3	5	PCT-US95-09743-142	Sequence 142, App
29	7	2, 3	126	US-09-621-976-3902	Sequence 3902, App
30	7	2, 3	134	US-09-541-681A-4921	Sequence 4921, App
31	7	2, 3	155	US-09-541-681A-4921	Sequence 4921, App
32	7	2, 3	155	US-09-253-991A-32569	Sequence 32569, A
33	7	2, 3	188	US-09-253-991A-32569	Sequence 32569, A
34	7	2, 3	188	US-09-253-991A-32569	Sequence 32569, A
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37	7	2, 3	209	US-09-253-991A-32569	Sequence 32569, A
38	7	2, 3	209	US-09-253-991A-32569	Sequence 32569, A
39	7	2, 3	209	US-09-253-991A-32569	Sequence 32569, A
40	7	2, 3	209	US-09-253-991A-32569	Sequence 32569, A
41	7	2, 3	209	US-09-253-991A-32569	Sequence 32569, A
42	7	2, 3	209	US-09-253-991A-32569	Sequence 32569, A
43	7	2, 3	209	US-09-253-991A-32569	Sequence 32569, A
44	7	2, 3	209	US-09-253-991A-32569	Sequence 32569, A
45	7	2, 3	209	US-09-253-991A-32569	Sequence 32569, A

ALIGNMENTS

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RESULT 1
US-09-130-158A-2
; Sequence 2, Application US/09130158A
; Patent No. 6576607
; GENERAL INFORMATION:
; APPLICANT: Schachner, Melitta
; TITLE OF INVENTION: CNS Neurite Outgrowth Modulators and
; FILE REFERENCE: 1094-1-001 CIP1B
; CURRENT APPLICATION NUMBER: US/09/130,158A
; CURRENT FILING DATE: 1998-08-06
; PRIOR APPLICATION NUMBER: US 08/636,514
; PRIOR FILING DATE: 1996-04-19
; PRIOR APPLICATION NUMBER: US 08/483,959
; PRIOR FILING DATE: 1995-06-07
; PRIOR APPLICATION NUMBER: US 08/424,995
; PRIOR FILING DATE: 1995-04-19
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 1209
; TYPE: PRT
; ORGANISM: murine
US-09-130-158A-2

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Query Match	3.3%;	Score 10;	DB 4;	Length 1209;
Best Local Similarity	100.0%;	Pred. No. 0.77;		
Matches 10;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY 116 ASNRLGTAVS 125
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Db 111 ASNRLGTAVS 120

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RESULT 2
US-09-621-976-4124
; Sequence 4124, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Robert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 4124
; LENGTH: 118
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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -20...-1
; NAME/KEY: UNSURE
; LOCATION: -16
; OTHER INFORMATION: Xaa = Ala,Gly
US-09-621-976-4124

Query Match 2.6%; Score 8; DB 4; Length 118;
Best Local Similarity 100.0%; Pred.No. 6.8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 SLPLLLLL 21
DB 98 SLPLLLLL 105

RESULT 3
US-09-673-395A-577
; Sequence 577, Application US/09673395A
; Patent No. 6620923
; GENERAL INFORMATION:
; APPLICANT: SPECHT, THOMAS
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHMITT, ARMIN
; APPLICANT: PILARSKY, CHRISTIAN
; APPLICANT: DAHL, EDGAR
; APPLICANT: ROSENTHAL, ANDRE
; TITLE OF INVENTION: HUMAN NUCLEIC ACID SEQUENCES FROM UTERUS TUMOR TISSUE
; FILE REFERENCE: ALBRE-12
; CURRENT APPLICATION NUMBER: US/09/673.395A
; CURRENT FILING DATE: 2000-10-17
; NUMBER OF SEQ ID NOS: 637
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 577
; LENGTH: 161
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MOD RES
; LOCATION: (15)
; OTHER INFORMATION: Any, other, or unknown amino acid
; NAME/KEY: MOD RES
; LOCATION: (20)...(21)
; OTHER INFORMATION: Any, other, or unknown amino acid
; NAME/KEY: MOD RES
; LOCATION: (35)
; OTHER INFORMATION: Any, other, or unknown amino acid
; NAME/KEY: MOD RES
; LOCATION: (39)
; OTHER INFORMATION: Any, other, or unknown amino acid
; NAME/KEY: MOD RES
; LOCATION: (45)
; OTHER INFORMATION: Any, other, or unknown amino acid
; NAME/KEY: MOD RES
; LOCATION: (80)
; OTHER INFORMATION: Any, other, or unknown amino acid
; NAME/KEY: MOD RES
; LOCATION: (85)
; OTHER INFORMATION: Any, other, or unknown amino acid
; NAME/KEY: MOD RES
; LOCATION: (87)
; OTHER INFORMATION: Any, other, or unknown amino acid
US-09-673-395A-577

Query Match 2.6%; Score 8; DB 4; Length 161;
Best Local Similarity 100.0%; Pred.No. 9.1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 LPLLLLLL 22
DB 11111111

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DB 2 LPLLLLLL 9

RESULT 4
US-08-837-029-2
; Sequence 2, Application US/08837029
; Patent No. 5945303
; GENERAL INFORMATION:
; APPLICANT: Wei et al.
; TITLE OF INVENTION: Human Hematopoietic - Specific Protein
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/837,029
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US96/04930
; FILING DATE: 11-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF268
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-309-8504
; TELEFAX: 301-309-8439
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 189 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-837-029-2

Query Match 2.6%; Score 8; DB 2; Length 189;
Best Local Similarity 100.0%; Pred.No. 11;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 SLPLLLLL 21
DB 4 SLPLLLLL 11

RESULT 5
US-09-800-729-114
; Sequence 114, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P204P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 114
; LENGTH: 287
; TYPE: PRT

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; ORGANISM: Homo sapiens
US-09-800-729-114

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Best Local Similarity 100.0%; Pred. No. 16;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      14 SLPLLLLL 21
DB      12 SLPLLLLL 19

RESULT 6
US-09-800-729-153
; Sequence 153, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 153
; LENGTH: 287
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-800-729-153

Query Match      2.6%; Score 8; DB 4; Length 287;
Best Local Similarity 100.0%; Pred. No. 16;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      14 SLPLLLLL 21
DB      12 SLPLLLLL 19

RESULT 7
US-09-615-192A-284
; Sequence 284, Application US/09615192A
; Patent No. 6410718
; GENERAL INFORMATION:
; APPLICANT: Bloksberg, Leonard N.
; APPLICANT: Havukkala, Ilkka
; TITLE OF INVENTION: Materials and Methods for the
; TITLE OF INVENTION: Modification of Plant Lignin Content
; FILE REFERENCE: 11000.1003c4U
; CURRENT APPLICATION NUMBER: US/09/615,192A
; CURRENT FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 08/975,316
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: US 08/713,000
; PRIOR FILING DATE: 1996-09-11
; PRIOR APPLICATION NUMBER: US 09/169,789
; PRIOR FILING DATE: 1998-10-09
; NUMBER OF SEQ ID NOS: 405
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 284
; LENGTH: 330
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
US-09-615-192A-284

Query Match      2.6%; Score 8; DB 4; Length 330;
Best Local Similarity 100.0%; Pred. No. 18;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      14 SLPLLLLL 21
DB      12 SLPLLLLL 19

RESULT 8
US-09-800-729-82
; Sequence 82, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 82
; LENGTH: 613
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-800-729-82

Query Match      2.6%; Score 8; DB 4; Length 613;
Best Local Similarity 100.0%; Pred. No. 32;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      14 SLPLLLLL 21
DB      12 SLPLLLLL 19

RESULT 9
US-09-800-729-98
; Sequence 98, Application US/09800729
; Patent No. 6605592
; GENERAL INFORMATION:
; APPLICANT: Ni et al.
; TITLE OF INVENTION: 32 Human secreted proteins
; FILE REFERENCE: P2044P1
; CURRENT APPLICATION NUMBER: US/09/800,729
; CURRENT FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: PCT/US00/26013
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: 60/155,709
; PRIOR FILING DATE: 1999-09-24
; NUMBER OF SEQ ID NOS: 217
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 98
; LENGTH: 613
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (507)
; OTHER INFORMATION: xaa equals any of the naturally occurring L-amino acids
US-09-800-729-98

Query Match      2.6%; Score 8; DB 4; Length 613;
Best Local Similarity 100.0%; Pred. No. 32;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      14 SLPLLLLL 21
DB      12 SLPLLLLL 19

RESULT 10
US-08-447-464-3
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Sequence 3, Application US/08447464
Patent No. 5840842
GENERAL INFORMATION:
APPLICANT: Schllessinger, Joseph
TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PROTEIN
TITLE OF INVENTION: PHOSPHOTYROSINE PHOSPHATASE-SIGMA
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/447,464
FILING DATE: 24-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/130,570
FILING DATE: 01-OCT-1993
ATTORNEY/AGENT INFORMATION:
NAME: Mirock, S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 7683-043
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
TELEFAX: 212-869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1501 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-447-464-3

Query Match 2.6%; Score 8; DB 2; Length 1501;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 207 CVATNSAG 214
Db 207 CVATNSAG 214

RESULT 11
US-08-716-679-3
Sequence 3, Application US/08716679
Patent No. 5846800
GENERAL INFORMATION:
APPLICANT: Schllessinger, Joseph
TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PROTEIN
TITLE OF INVENTION: PHOSPHOTYROSINE PHOSPHATASE-SIGMA
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/716,679
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/130,570
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Mirock, S. Leslie
REGISTRATION NUMBER: 18,872
REFERENCE/DOCKET NUMBER: 7683-043
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
TELEFAX: 212-869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1501 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-716-679-3

Query Match 2.6%; Score 8; DB 2; Length 1501;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 207 CVATNSAG 214
Db 207 CVATNSAG 214

RESULT 12
US-08-348-006B-5
Sequence 5, Application US/08348006B
Patent No. 5658756
GENERAL INFORMATION:
APPLICANT: RODAN, GIDEON A.
APPLICANT: SCHMIDT, AZRIEL
APPLICANT: RUTLEDGE, SU JANE
TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN
TITLE OF INVENTION: TYROSINE PHOSPHATASE
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: J. MARK HAND
STREET: 126 E. LINCOLN AVE., P.O. BOX 2000
CITY: RAYWAY
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/348,006B
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/122,032
FILING DATE: 14-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: HAND, J., MARK
REGISTRATION NUMBER: 36,545
REFERENCE/DOCKET NUMBER: 189921A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-594-3905
TELEFAX: 908-594-4720
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1911 amino acids


```

; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-348-006B-5

Query Match      2.6%; Score 8; DB 1; Length 1911;
Best Local Similarity 100.0%; Pred. No. 91;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CVATNSAG 214
DB 207 CVATNSAG 214

RESULT 13
US-08-800-825A-5
; Sequence 5, Application US/08800825A
; Patent No. 5866397
; GENERAL INFORMATION:
; APPLICANT: RODAN, GIDEON A.
; APPLICANT: SCHMIDT, AZRIEL
; TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASE
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: J. MARK HAND - MERCK & CO., INC.
; STREET: 126 E. LINCOLN AVE., P.O. BOX 2000
; CITY: RAHWAY
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/800,825A
; FILING DATE: 14-FEB-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: 08/800,825
; FILING DATE: 14-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: HAND, J. MARK
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18992DA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-4720
; TELEFAX: 732-594-3905
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1911 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-800-825A-5

Query Match      2.6%; Score 8; DB 2; Length 1911;
Best Local Similarity 100.0%; Pred. No. 91;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CVATNSAG 214
DB 207 CVATNSAG 214

RESULT 14
US-09-158-657-5
; Sequence 5, Application US/09158657
; Patent No. 6214564
; GENERAL INFORMATION:
; APPLICANT: RODAN, GIDEON A.
; APPLICANT: SCHMIDT, AZRIEL
; TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASE
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: J. MARK HAND - MERCK & CO., INC.
; STREET: 126 E. LINCOLN AVE., P.O. BOX 2000
; CITY: RAHWAY
; STATE: NEW JERSEY
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/158,657
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/800,825
; FILING DATE: 14-FEB-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: HAND, J. MARK
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18992DA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 732-594-4720
; TELEFAX: 732-594-3905
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1911 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-158-657-5

Query Match      2.6%; Score 8; DB 3; Length 1911;
Best Local Similarity 100.0%; Pred. No. 91;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CVATNSAG 214
DB 207 CVATNSAG 214

RESULT 15
PCT-US94-10166-5
; Sequence 5, Application PC/TUS9410166
; GENERAL INFORMATION:
; APPLICANT: RODAN, GIDEON A
; APPLICANT: SCHMIDT, AZRIEL
; APPLICANT: RUTLEDGE, SU JANE
; TITLE OF INVENTION: CDNA ENCODING A NOVEL HUMAN PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASE
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: JOHN W. WALLEN III
; STREET: P.O. BOX 2000, 126 E. LINCOLN AVE.
; CITY: RAHWAY
; STATE: NJ
; COUNTRY: USA
; ZIP: 07065
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US94/10166
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/ FILING DATE: 09-SEPT-1994
/ CLASSIFICATION:
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/122,032
/ FILING DATE: 14-SEP-1993
/ ATTORNEY/AGENT INFORMATION:
/ NAME: WALLEN, JOHN W III
/ REGISTRATION NUMBER: 35403
/ REFERENCE/DOCKET NUMBER: 18992
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 908-594-3905
/ TELEFAX: 908-594-4720
/ TELEX: 138825
/ INFORMATION FOR SEQ ID NO: 5:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 1911 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: protein
PCT-US94-10166-5

Query Match 2.6%; Score 8; DB 5; Length 1911;
Best Local Similarity 100.0%; Pred. No. 91;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CVATNSAG 214

Db 207 CVATNSAG 214

Search completed: February 29, 2004, 08:19:35
Job time : 25 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 27, 2004, 15:39:59 ; Search time 76 Seconds
(without alignments)
1126.472 Million cell updates/sec

Title: US-10-047-021-86

Perfect score: 303

Sequence: 1 MGSGGSLGGRGSLPLLL.....SGPRLPREARELRGQRNTG 303

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 1586107 seqs, 282547505 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : A_Geneseq_29Jan04:*

- 1: Geneseqp1980s:*
- 2: Geneseqp1990s:*
- 3: Geneseqp2000s:*
- 4: Geneseqp2001s:*
- 5: Geneseqp2002s:*
- 6: Geneseqp2003as:*
- 7: Geneseqp2003bs:*
- 8: Geneseqp2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	300	99.0	303	5	ABP62033 Human sec
2	300	99.0	304	2	AAY12934 Amino aci
3	148	48.8	480	4	AAU00501 Human TAN
4	148	48.8	985	2	AAU00501 Human PRO
5	148	48.8	985	3	AAU00501 Human PRO
6	148	48.8	985	6	ABO25218 Novel hum
7	148	48.8	985	6	ABU72224 Novel hum
8	148	48.8	985	6	ABU84904 Human sec
9	148	48.8	985	6	ABU61102 Human PRO
10	148	48.8	985	6	ABU80371 Human sec
11	148	48.8	985	6	ADA24750 Novel hum
12	148	48.8	985	6	ABO19673 Novel hum
13	148	48.8	985	6	ADA12411 Human sec
14	148	48.8	985	6	ABO19564 Novel hum
15	148	48.8	985	7	ADB73717 Human PRO
16	148	48.8	985	7	ADB76433 Human PRO
17	148	48.8	985	7	ADC3859 Human sec
18	148	48.8	985	7	ADC61619 Human sec
19	148	48.8	985	7	ADC63583 Human sec
20	148	48.8	985	7	ADC65683 Human sec
21	148	48.8	985	7	ADC68807 Human sec
22	148	48.8	985	7	ADC62867 Human sec
23	148	48.8	985	7	ADC67932 Human sec
24	148	48.8	985	7	ADC41252 Human sec
25	148	48.8	985	7	ADC67307 Human sec

ALIGNMENTS

RESULT 1

ABP62033

ID ABP62033 standard; protein; 303 AA.

XX

AC ABP62033;

DT 12-NOV-2002 (first entry)

XX

DE Human secreted protein SEQ ID NO 86.

XX

Human; nototropic; neuroprotective; cytostatic; dermatological; virucide; immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary; antiparkinsonian; antiskickling; antianaemic; antiarthritic; cancer; antirheumatic; hepatotropic; cerebrotective; antiinflammatory; antiallergic; antidiabetic; antitumor; anticonvulsant; antifungal; antiparasitic; cardiant; immune disorder; cardiovascular disorder; neurological disease; infection; nephrotropic; gene therapy; vaccine.

XX

OS Homo sapiens.

XX

PN WO200257420-A2.

XX

PD 25-JUL-2002.

XX

PF 17-JAN-2002; 2002WO-US001109.

XX

PR 18-JAN-2001; 2001US-0262066P.

XX

PA (HUMA-) HUMAN GENOME SCI INC.

XX

PI Moore PA, Ruben SM, Lafleur DW, Shi Y, Rosen CA, Olsen H;

XX

PI Ebner R, Brewer LA;

XX

DR WPI: 2002-599716/54.

DR

DR N-PSDB; ABQ92573.

XX

PT New polynucleotides and polypeptides useful for diagnosing, prognosing, treating or preventing e.g. neurodegenerative, central nervous system, autoimmune, respiratory, reproductive, or inflammatory diseases or disorders.

XX

PS Claim 11; Fig 1; 785pp; English.

XX

The invention relates to novel genes (ABQ92553-ABQ92607) and proteins (ABP62013-ABP62153) useful for preventing, treating or ameliorating medical conditions e.g. by protein or gene therapy. The genes are isolated from a range of human tissues disclosed in the specification. The nucleic acids, proteins, antibodies and (ant)agonists are useful in

CC

CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and
 CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow,
 CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune
 CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic
 CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease,
 CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c)
 CC cardiovascular disorders such as myocardial ischaemia; (d) wound healing
 CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f)
 CC infectious diseases such as viral, bacterial, fungal and parasitic
 CC infections
 XX

SQ Sequence 303 AA;
 Query Match 99.0%; Score 300; DB 5; Length 303;
 Best Local Similarity 100.0%; Pred. No. 1e-273;
 Matches 303; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MSGGDSLLGGRGSLPLLLLLIMGMAQDSPQILVHPQDLFGPGPARMSCRASGQPP 60
 DB 1 MSGGDSLLGGRGSLPLLLLLIMGMAQDSPQILVHPQDLFGPGPARMSCRASGQPP 60
 QY 61 PTIRWLLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAGDQALSTDLGVYTCESNRL 120
 DB 61 PTIRWLLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAGDQALSTDLGVYTCESNRL 120
 QY 121 GTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWKDGKPLAL 180
 DB 121 GTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWKDGKPLAL 180
 QY 181 QPGRHTVSGGSLLMARAEKSDXTYMCVATNSAGHRSRAARVSIQPDYTERVELLAV 240
 DB 181 QPGRHTVSGGSLLMARAEKSDXTYMCVATNSAGHRSRAARVSIQPDYTERVELLAV 240
 QY 241 RIQLENTVLLNPDPAEGPKPRPAVLWKVSGPXRLPNLTPCSPGRLPREARELRQRR 300
 DB 241 RIQLENTVLLNPDPAEGPKPRPAVLWKVSGPXRLPNLTPCSPGRLPREARELRQRR 300
 QY 301 NTG 303
 DB 301 NTG 303

RESULT 2

AA12934

ID AA12934 standard; protein; 304 AA.

XX AC AA12934;

XX DT 17-JUN-1999 (first entry)

XX DE Amino acid sequence of a human secreted peptide.

KW Human secreted protein; cancer; immune disorder; infection;
 KW inflammatory disorder; skin disorder; tumour; atherosclerosis;
 KW restenosis; autoimmune disorder; Alzheimer's disease;
 KW peripheral neuropathy; trauma; spinal cord injury; allergy;
 KW hematopoietic disorder; skeletal disorder; neurological disorder;
 KW arthritic disorder; asthma; immunodeficiency disease; AIDS;
 KW transplant rejection; ss.

OS Homo sapiens.

XX Key Location/Qualifiers
 FH Peptide 1..27
 FT /note= "signal peptide"
 FT Protein 28..303
 FT /note= "secreted protein"

XX WO9911293-A1.

XX 11-MAR-1999.

XX 03-SEP-1998; 98WO-US018360.

XX 05-SEP-1997; 97US-0057628P.
 PR 05-SEP-1997; 97US-0057663P.
 PR 05-SEP-1997; 97US-0057669P.
 PR 12-SEP-1997; 97US-0058666P.
 PR 12-SEP-1997; 97US-0058666P.
 PR 12-SEP-1997; 97US-0058973P.
 PR 12-SEP-1997; 97US-0058974P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 PA Moore PA, Ruben SM, Lafleur DW, Shi Y, Rosen GA, Olesen HS;
 PI Ebner R, Brewer LA;
 XX WPI: 1999-204988/17.
 DR N-PSDB; AAX51721.
 XX New isolated human genes and the secreted polypeptides they encode -
 PT useful for diagnosis and treatment of e.g. neurological disorders,
 PT tumors, immune disorders, inflammation or hematological disorders.
 XX Claim 11; Page 190-191; 215pp; English.
 PS
 XX AAY12914-68 represent human secreted proteins. The polypeptides and their
 CC corresponding polynucleotides are useful for preventing, treating or
 CC ameliorating medical conditions, e.g. by protein or gene therapy.
 CC Pathological conditions can also be diagnosed by determining the amount
 CC of the new polypeptides in a sample or by determining the presence of
 CC mutations in the new polynucleotides. Specific uses are described for
 CC each polynucleotide, based on which tissues they are most highly
 CC expressed in, and include developing products for the diagnosis or
 CC treatment of cancer, immune disorders, infection, inflammatory disorders,
 CC skin disorders, tumours, atherosclerosis, restenosis, autoimmune
 CC disorders, Alzheimer's disease, peripheral neuropathies, trauma, spinal
 CC cord injuries, allergy, hematopoietic disorders, skeletal disorders,
 CC neurological disorders, arthritic disorders, asthma, immunodeficiency
 CC diseases, AIDS and transplant rejection. The polypeptides are also useful
 CC for identifying their binding partners
 XX
 SQ Sequence 304 AA;

Query Match 99.0%; Score 300; DB 2; Length 304;

Best Local Similarity 100.0%; Pred. No. 1e-273;

Matches 303; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MSGGDSLLGGRGSLPLLLLLIMGMAQDSPQILVHPQDLFGPGPARMSCRASGQPP 60

DB 1 MSGGDSLLGGRGSLPLLLLLIMGMAQDSPQILVHPQDLFGPGPARMSCRASGQPP 60

QY 61 PTIRWLLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAGDQALSTDLGVYTCESNRL 120

DB 61 PTIRWLLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAGDQALSTDLGVYTCESNRL 120

QY 121 GTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWKDGKPLAL 180

DB 121 GTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWKDGKPLAL 180

QY 181 QPGRHTVSGGSLLMARAEKSDXTYMCVATNSAGHRSRAARVSIQPDYTERVELLAV 240

DB 181 QPGRHTVSGGSLLMARAEKSDXTYMCVATNSAGHRSRAARVSIQPDYTERVELLAV 240

QY 241 RIQLENTVLLNPDPAEGPKPRPAVLWKVSGPXRLPNLTPCSPGRLPREARELRQRR 300

DB 241 RIQLENTVLLNPDPAEGPKPRPAVLWKVSGPXRLPNLTPCSPGRLPREARELRQRR 300

QY 301 NTG 303

DB 301 NTG 303

RESULT 3

AAU00501

ID AAU00501 standard; protein; 480 AA.

XX AAU00501;
 XX 18-JUL-2001 (first entry)
 XX Human TANGO 330 form 2 protein.
 XX
 XX Human; TANGO 315; clone Jthx181e12; TANGO 330; TANGO 437; TANGO 480;
 KW cellular process regulator; gene therapy; astrocyte; cancer; Roundabout;
 KW adrenal cortex; hypoadrenalism; hyperadrenalism; neoplasia;
 KW cell proliferative disorder; neurological disorder; Alzheimer's disease.
 XX
 XX Homo sapiens.
 XX
 XX Key Location/Qualifiers
 XX Peptide 1..20
 XX /label= signal_peptide
 XX Modified-site 15..17
 XX /note= "Protein kinase C phosphorylation site"
 XX Domain 21..480
 XX /label= Extracellular_domain
 XX Protein 21..480
 XX /label= Mature_TANGO_330_form_2_protein
 XX Modified-site 30..33
 XX /note= "cAMP and cGMP dependent protein kinase
 XX phosphorylation site"
 XX Modified-site 44..47
 XX Domain 77..147
 XX /label= Ig-like_domain
 XX Modified-site 93..95
 XX /note= "Protein kinase C phosphorylation site"
 XX Modified-site 100..105
 XX /note= "N-myristylation site"
 XX Modified-site 133..138
 XX /note= "N-myristylation site"
 XX Modified-site 141..146
 XX /note= "N-myristylation site"
 XX Modified-site 148..150
 XX /note= "Protein kinase C phosphorylation site"
 XX Modified-site 152..157
 XX /note= "N-myristylation site"
 XX Modified-site 158..163
 XX /note= "N-myristylation site"
 XX Domain 182..240
 XX /label= Ig-like_domain
 XX Modified-site 230..236
 XX /note= "Tyrosine kinase phosphorylation site"
 XX Modified-site 234..239
 XX /note= "N-myristylation site"
 XX Modified-site 255..258
 XX /note= "Casein kinase II phosphorylation site"
 XX Modified-site 277..280
 XX /note= "Asn is N-glycosylated"
 XX Modified-site 298..300
 XX /note= "Protein kinase C phosphorylation site"
 XX Modified-site 325..330
 XX /note= "N-myristylation site"
 XX Modified-site 343..348
 XX /note= "N-myristylation site"
 XX Modified-site 358..360
 XX /note= "Protein kinase C phosphorylation site"
 XX Modified-site 386..388
 XX /note= "Protein kinase C phosphorylation site"
 XX Modified-site 391..394
 XX /note= "Asn is N-glycosylated"
 XX Modified-site 408..413
 XX /note= "N-myristylation site"
 XX Modified-site 420..423
 XX /note= "Asn is N-glycosylated"
 XX Modified-site 427..430
 XX /note= "Asn is N-glycosylated"
 XX Modified-site 435..438

FT /note= "Casein kinase II phosphorylation site"
 FT 456..461
 FT /note= "N-myristylation site"
 XX
 XX WO200123523-A2.
 XX
 XX 05-APR-2001.
 XX
 XX 02-OCT-2000; 2000WO-US027202.
 XX
 XX 30-SEP-1999; 99US-00409634.
 XX
 XX (MILL-) MILLENNIUM PHARM INC.
 XX
 XX Kirst S, Wrighton N, Fraser CC;
 XX WPI; 2001-235372/24.
 XX N-PSDB; AAS01695.
 XX
 XX Isolated secreted proteins and their encoding nucleic acids are used for
 XX diagnosis and treatment of e.g. bacterial and viral infections,
 XX autoimmune diseases and inflammatory disorders.
 XX
 XX Claim 9; Fig 14; 261pp; English.
 XX
 XX The present sequence representing human TANGO 330 form 2 is isolated from
 XX cDNA clone Jthx181e12 from a human astrocyte cDNA library. TANGO 330 is
 XX 1 of 4 novel human transmembrane proteins which also includes TANGO 315
 XX (AAU00498-AAU00499), TANGO 437 (AAU00502) and TANGO 480 (AAU00503). The
 XX nucleic acids encoding these proteins are useful as modulating agents in
 XX regulating a variety of cellular processes and can be used to express the
 XX proteins in a host cell in gene therapy applications. Antisense nucleic
 XX acid molecules and expression vectors containing the TANGO nucleic acids
 XX are also described. Diagnostic assays can be used to detect genetic
 XX alterations in the TANGO nucleic acids and to identify compounds that
 XX bind to or modulate activity of the TANGO proteins. Anti-TANGO antibodies
 XX are used diagnostically to monitor protein levels in tissue as a clinical
 XX testing procedure. TANGO 330 shows homology to human Roundabout. TANGO
 XX 330 nucleic acids and proteins may be used to diagnose, treat and monitor
 XX disorders of the adrenal cortex e.g. hypoadrenalism, hyperadrenalism, and
 XX neoplasia. They can also be used to treat cell proliferative disorders
 XX (e.g. cancer), and neurological disorders e.g. Alzheimer's disease
 XX
 XX Sequence 480 AA;
 XX
 XX Query Match 48.8%; Score 148; DB 4; Length 480;
 XX Best Local Similarity 100.0%; Pred. No. 1.9e-130;
 XX Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 55 ASGQPPPTIRWLLNGQPLSMVPPDPHLLPDGTLILLOPPAEGHAGDGOALSTDLGVYTC 114
 Db 86 ASGQPPPTIRWLLNGQPLSMVPPDPHLLPDGTLILLOPPAEGHAGDGOALSTDLGVYTC 145
 Qy 115 EASNRLGTAVSRGARSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHGPTVSWKX 174
 Db 146 EASNRLGTAVSRGARSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHGPTVSWKX 205
 Qy 175 GKPLALQPGRHVTSGSLLMARAEKSD 202
 Db 206 GKPLALQPGRHVTSGSLLMARAEKSD 233
 RESULT 4
 AAY41716
 ID AAY41716 standard; protein; 985 AA.
 XX
 XX AAY41716;
 XX
 XX 07-DEC-1999 (first entry)
 XX Human PRO860 protein sequence.
 XX
 XX Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;

KW probe: blood coagulation disorder; cancer; cellular adhesion disorder;
 KW secreted protein; transmembrane protein.

XX Homo sapiens.
 OS WO9946281-A2.
 PN 16-SEP-1999.
 PD 08-MAR-1999;
 XX 99WO-US005028.
 XX 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 12-MAR-1998; 98US-0077791P.
 PR 13-MAR-1998; 98US-0078004P.
 PR 17-MAR-1998; 98US-00040220.
 PR 20-MAR-1998; 98US-0078886P.
 PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078936P.
 PR 20-MAR-1998; 98US-0078939P.
 PR 25-MAR-1998; 98US-0079294P.
 PR 26-MAR-1998; 98US-0079565P.
 PR 27-MAR-1998; 98US-0079663P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079689P.
 PR 27-MAR-1998; 98US-0079728P.
 PR 27-MAR-1998; 98US-0079786P.
 PR 30-MAR-1998; 98US-0079920P.
 PR 30-MAR-1998; 98US-0079923P.
 PR 31-MAR-1998; 98US-0080105P.
 PR 31-MAR-1998; 98US-0080107P.
 PR 31-MAR-1998; 98US-0080165P.
 PR 31-MAR-1998; 98US-0080194P.
 PR 01-APR-1998; 98US-0080327P.
 PR 01-APR-1998; 98US-0080328P.
 PR 01-APR-1998; 98US-0080333P.
 PR 01-APR-1998; 98US-0080334P.
 PR 08-APR-1998; 98US-0081049P.
 PR 08-APR-1998; 98US-0081070P.
 PR 08-APR-1998; 98US-0081071P.
 PR 09-APR-1998; 98US-0081195P.
 PR 09-APR-1998; 98US-0081203P.
 PR 09-APR-1998; 98US-0081229P.
 PR 15-APR-1998; 98US-0081817P.
 PR 15-APR-1998; 98US-0081838P.
 PR 15-APR-1998; 98US-0081952P.
 PR 15-APR-1998; 98US-0081955P.
 PR 21-APR-1998; 98US-0082588P.
 PR 21-APR-1998; 98US-0082589P.
 PR 22-APR-1998; 98US-0082700P.
 PR 22-APR-1998; 98US-0082704P.
 PR 22-APR-1998; 98US-0082804P.
 PR 23-APR-1998; 98US-0082767P.
 PR 23-APR-1998; 98US-0082796P.
 PR 27-APR-1998; 98US-0083336P.
 PR 28-APR-1998; 98US-0083342P.
 PR 29-APR-1998; 98US-0083392P.
 PR 29-APR-1998; 98US-0083495P.
 PR 29-APR-1998; 98US-0083496P.
 PR 29-APR-1998; 98US-0083499P.
 PR 29-APR-1998; 98US-0083500P.
 PR 29-APR-1998; 98US-0083545P.
 PR 29-APR-1998; 98US-0083546P.
 PR 29-APR-1998; 98US-0083554P.
 PR 29-APR-1998; 98US-0083558P.
 PR 29-APR-1998; 98US-0083559P.
 PR 30-APR-1998; 98US-0083742P.
 PR 05-MAY-1998; 98US-0084366P.
 PR 06-MAY-1998; 98US-0084414P.
 PR 07-MAY-1998; 98US-0084411P.
 PR 07-MAY-1998; 98US-0084598P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 07-MAY-1998; 98US-0084627P.
 PR 07-MAY-1998; 98US-0084637P.
 PR 07-MAY-1998; 98US-0084639P.
 PR 07-MAY-1998; 98US-0084640P.
 PR 07-MAY-1998; 98US-0084643P.
 PR 13-MAY-1998; 98US-0085323P.
 PR 13-MAY-1998; 98US-0085338P.
 PR 13-MAY-1998; 98US-0085339P.
 PR 15-MAY-1998; 98US-0085573P.
 PR 15-MAY-1998; 98US-0085579P.
 PR 15-MAY-1998; 98US-0085580P.
 PR 15-MAY-1998; 98US-0085582P.
 PR 15-MAY-1998; 98US-0085689P.
 PR 15-MAY-1998; 98US-0085697P.
 PR 15-MAY-1998; 98US-0085700P.
 PR 18-MAY-1998; 98US-0085704P.
 PR 22-MAY-1998; 98US-0086023P.
 PR 22-MAY-1998; 98US-0086392P.
 PR 22-MAY-1998; 98US-0086414P.
 PR 22-MAY-1998; 98US-0086430P.
 PR 28-MAY-1998; 98US-0086486P.
 PR 28-MAY-1998; 98US-0087098P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 28-MAY-1998; 98US-0087208P.
 PR 30-JUL-1998; 98US-0094651P.
 PR 11-SEP-1998; 98US-0100038P.
 XX (GETH) GENENTECH INC.
 PA Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;
 PI WPI; 1999-551358/46.
 XX N-PSDB; AA234069.
 DR PT New secreted and transmembrane polypeptides and their polynucleotides,
 PT useful for treating blood coagulation disorders, cancers and cellular
 PT adhesion disorders.
 XX Claim 12; Fig 77; 530pp; English.
 XX The present invention describes secreted and transmembrane polypeptides
 CC and their polynucleotides. The nucleotide sequences are useful as sources
 CC of probes, primers, for chromosome mapping, and for generation of
 CC antisense sequences. They can also be used to create transgenic animals.
 CC The proteins can be used to treat a variety of diseases and disorders,
 CC depending on their function. Diseases that may be treated include blood
 CC coagulation disorders, cancers and cellular adhesion disorders. They may
 CC also be used to raise antibodies. AA233891 to AA234338, and AA41685 to
 CC AA41774 represent polynucleotide and polypeptide sequence given in the
 CC exemplification of the present invention
 XX Sequence 985 AA;
 SQ
 Query Match 48.8%; Score 148; DB 2; Length 985;
 Best Local Similarity 100.0%; Pred. No. 3.5e-130; Indels 0; Gaps 0;
 Matches 148; Conservative 0; Mismatches 0;
 QY 55 ASGQPPPTIRWLLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAHQALSTDLGYVTC 114
 DB 33 ASGQPPPTIRWLLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAHQALSTDLGYVTC 92
 QY 115 EASNRLGTAVSGRGARLSVAVLREDFQIQPRDMVAVGGEQFTLECGPPGHPPTVSWWKD 174
 DB 93 EASNRLGTAVSGRGARLSVAVLREDFQIQPRDMVAVGGEQFTLECGPPGHPPTVSWWKD 152
 QY 175 GKPLALQFGRHTVSGGSLLMARAEKSDE 202
 DB 153 GKPLALQFGRHTVSGGSLLMARAEKSDE 180
 RESULT 5
 AAB44272
 ID AAB44272 standard; protein; 985 AA.

AA44272;
08-FEB-2001 (first entry)
Human PR0860 (UNQ421) protein sequence SEQ ID NO:211.
Human; secreted protein; transmembrane protein; PRO; EST; cytosstatic;
expressed sequence tag; detection; cancer.
Homo sapiens.
W0200053756-A2.
14-SEP-2000.
18-FEB-2000; 2000WO-US004341.
08-MAR-1999; 99WO-US005028.
12-MAR-1999; 99US-0123957P.
29-MAR-1999; 99US-0126773P.
21-APR-1999; 99US-0130232P.
28-APR-1999; 99US-0131445P.
14-MAY-1999; 99US-0134287P.
23-JUN-1999; 99US-0141037P.
26-JUL-1999; 99US-0145698P.
29-OCT-1999; 99US-0162506P.
30-NOV-1999; 99WO-US028313.
02-DEC-1999; 99WO-US028551.
16-DEC-1999; 99WO-US028565.
30-DEC-1999; 99WO-US030095.
30-DEC-1999; 99WO-US031243.
05-DEC-1999; 99WO-US031274.
05-JAN-2000; 2000WO-US000219.
06-JAN-2000; 2000WO-US000377.
06-JAN-2000; 2000WO-US000376.
(GETH) GENENTECH INC.
Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen MB;
Goddard A, Godowski P, Grimaldi CJ, Gurney AL, Hillan KJ;
Kiljavin IU, Kuo SS, Napier MA, Pan J, Faoni NF, Roy MA, Shelton DL;
Stewart TA, Tunas D, Williams PM, Wood WI;
WPI; 2000-611443/58.
N-PSDB; AAC78502.
Novel PRO polypeptides and polynucleotides used in detection methods, to
target bioactive molecules to specific cells, and to modulate cellular
activities.
Claim 12; Fig 77; 636pp; English.
AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence
tag) sequences which encode secreted or transmembrane PRO polypeptides.
The PRO polynucleotides and polypeptides have cytosstatic activity. The
polynucleotides and polypeptides can be used for detecting the presence
of PRO polypeptides in samples, for linking bioactive molecules to cells
and for modulating biological activities of cells, using the polypeptides
for specific targeting. The polypeptide targeting can be used to kill the
target cells, e.g. for the treatment of cancers. The polypeptide pairs
provide specific targeting of bioactive molecules to cells. AAC78600 to
AAC78987 represent PCR primers and probes used in the isolation of the
PRO polynucleotide sequences
Sequence' 985 AA;
Query Match 48.8%; Score 148; DB 3; Length 985;
Best Local Similarity 100.0%; Pred. No. 3.5e-130; Indels 0; Gaps 0;
Matches 148; Conservative 0; Mismatches 0;
55 ASGQPPPTIRWLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHQALSTDLGVYTC 114

Db 33 ASGQPPPTIRWLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHQALSTDLGVYTC 92
Qy 115 EASNRLGTAIVSRGARLSVAVLRDFQIQPRDMVAVVGEGQFTLECGPPMGHPEPTVSWWKD 174
Db 93 EASNRLGTAIVSRGARLSVAVLRDFQIQPRDMVAVVGEGQFTLECGPPMGHPEPTVSWWKD 152
Qy 175 GKPLALQPRHTVSGSLLMARAESKDE 202
Db 153 GKPLALQPRHTVSGSLLMARAESKDE 180
RESULT 6
ABO25218
ID ABO25218 standard; protein; 985 AA.
XX
AC ABO25218;
XX
DT 09-SEP-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO860.
XX
KW Human; secreted and transmembrane protein; PRO; virucide; gene therapy;
cell death; growth induction cascade; blood coagulation cascade;
viral infection.
KW
XX
OS Homo sapiens.
XX
PN US2003050239-A1.
XX
PD 13-MAR-2003.
XX
PF 15-OCT-2001; 2001US-00978191.
XX
PR 17-OCT-1997; 97US-0062250P.
PR 13-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 25-MAR-1998; 98US-0079565P.
PR 27-MAR-1998; 98US-0079563P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080327P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
PR 09-APR-1998; 98US-0081229P.
PR 15-APR-1998; 98US-0081817P.

QY	55	ASGQPPPTIRWLLNGQPLSMVPPDP	PHLLPDGTTTTLLQPPARGHAHDGQALSTD	LGYYTC	111
DB	33	ASGQPPPTIRWLLNGQPLSMVPPDP	PHLLPDGTTTTLLQPPARGHAHDGQALSTD	LGYYTC	92
QY	115	EASNELGTAVSRGAELSVAVLR	EDFQIQPRDMVAVGGEQFTLECGPPWGHPEPTV	SNWKD	174
DB	93	EASNELGTAVSRGAELSVAVLR	EDFQIQPRDMVAVGGEQFTLECGPPWGHPEPTV	SNWKD	152
QY	175	GKPLALQPGRHVTSGSLLMARAEKSDE	202		
DB	153	GKPLALQPGRHVTSGSLLMARAEKSDE	180		
RESULT 7					
ABU72224					
XX	ID	ABU72224 standard; protein; 985 AA.			
XX	AC	ABU72224;			
XX	XX				
DT	DT	16-JUN-2003 (first entry)			
XX	XX				
DE	DE	Novel human secreted and transmembrane protein PRO860.			
XX	KW	Human; secreted and transmembrane protein; PRO; antinflammatory;			
XX	KW	antiartherosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;			
KW	KW	antidiabetic; gene therapy; inflammatory disease; organ failure;			
KW	KW	atherosclerosis; cardiac injury; infertility; birth defect;			
KW	KW	premature aging; AIDS; cancer; diabetic complication; chromosome mapping;			
KW	KW	Gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor;			
XX	XX	tissue typing.			
OS	OS	Homo sapiens.			
PN	PN	US2002192706-A1.			
PD	PD	19-DEC-2002.			
XX	XX				
XX	XX	24-OCT-2001; 2001US-00999832.			
PR	PR	17-OCT-1997; 97US-0062250P.			
PR	PR	03-NOV-1997; 97US-0064249P.			
PR	PR	13-NOV-1997; 97US-0065311P.			
PR	PR	21-NOV-1997; 97US-0068364P.			
PR	PR	10-MAR-1998; 98US-0077450P.			
PR	PR	11-MAR-1998; 98US-0077632P.			
PR	PR	11-MAR-1998; 98US-0077641P.			
PR	PR	11-MAR-1998; 98US-0077649P.			
PR	PR	12-MAR-1998; 98US-0077791P.			
PR	PR	13-MAR-1998; 98US-0078004P.			
PR	PR	17-MAR-1998; 98US-00040220.			
PR	PR	20-MAR-1998; 98US-0078886P.			
PR	PR	20-MAR-1998; 98US-0078910P.			
PR	PR	20-MAR-1998; 98US-0078936P.			
PR	PR	20-MAR-1998; 98US-0078939P.			
PR	PR	25-MAR-1998; 98US-0079294P.			
PR	PR	26-MAR-1998; 98US-0079656P.			
PR	PR	27-MAR-1998; 98US-0079663P.			
PR	PR	27-MAR-1998; 98US-0079664P.			
PR	PR	27-MAR-1998; 98US-0079689P.			
PR	PR	27-MAR-1998; 98US-0079728P.			
PR	PR	27-MAR-1998; 98US-0079786P.			
PR	PR	30-MAR-1998; 98US-0079920P.			
PR	PR	30-MAR-1998; 98US-0079923P.			
PR	PR	31-MAR-1998; 98US-0080103P.			
PR	PR	31-MAR-1998; 98US-0080107P.			
PR	PR	31-MAR-1998; 98US-0080165P.			
PR	PR	31-MAR-1998; 98US-0080194P.			
PR	PR	01-APR-1998; 98US-0080327P.			
PR	PR	01-APR-1998; 98US-0080328P.			
PR	PR	01-APR-1998; 98US-0080333P.			
PR	PR	01-APR-1998; 98US-0080334P.			
PR	PR	08-APR-1998; 98US-0081049P.			
PR	PR	08-APR-1998; 98US-0081070P.			

CC The invention describes an isolated nucleic acid (I) comprising, or which
 CC is at least 80 % sequence identity to, or the full-length coding sequence
 CC of, any of 118 300-2100 nucleotide sequences, which encodes its
 CC corresponding PRO polypeptide selected from 118 100-700 amino acid
 CC sequences, all given in the specification. The nucleic acids and
 CC polypeptides are useful for treating inflammatory diseases, organ
 CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
 CC premature aging, AIDS, cancer, or diabetic complications. The nucleic
 CC acids are useful as hybridisation probes, in chromosome and gene mapping,
 CC and in generating antisense RNA or DNA. The polypeptides are useful as
 CC pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful
 CC in tissue typing. This is the amino acid sequence of a novel human
 CC secreted and transmembrane PRO polypeptide
 XX
 SQ Sequence 985 AA;

Query Match 48.8%; Score 148; DB 6; Length 985;
 Best Local Similarity 100.0%; Pred No. 3.5e-130;
 Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 55 ASGGPPPTIRLLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAHQALSTDLGYTC 114
 DB 33 ASGGPPPTIRLLNGQPLSMVPPDPHLLPDGTLTLLQPPARGHAHQALSTDLGYTC 92
 QY 115 EASRLGTAVSRGARSVAVLREDFQIPQDMVAVVGEGFTLECGPPWGHPEPTVSWK 174
 DB 93 EASRLGTAVSRGARSVAVLREDFQIPQDMVAVVGEGFTLECGPPWGHPEPTVSWK 152
 QY 175 GKPLALQPGRTVSGSLLMARAEKSD 202
 DB 153 GKPLALQPGRTVSGSLLMARAEKSD 180

RESULT 8
 ABU84904
 ID ABU84904 standard; protein; 985 AA.
 XX
 AC ABU84904;
 XX
 DT 12-AUG-2003 (first entry)
 XX
 DE Human secreted and transmembrane polypeptide PRO860.
 XX
 KW Human; thrombolytic agent; interferon; interleukin; cytokine;
 KW erythropoietin; colony stimulating factor; cancer; colorectal carcinoma;
 KW apoptosis related condition; AIDS; ankyrotrophic lateral sclerosis;
 KW inflammatory disease; asthma; atherosclerosis; neurodegenerative disease;
 KW gastrointestinal disorder; Alzheimer's disease; Parkinson's disease;
 KW hypertension; myocardial ischemia; kidney disease; carcinogenesis;
 KW glomerulonephritis; lung disease; pulmonary hypertension; preclampsia;
 KW bronchial asthma; gastric ulcer; renal failure; cardiovascular disease;
 KW inflammatory bowel disease; reproductive disorder; premature labour.
 OS Homo sapiens.
 XX
 PN US2002177553-A1.
 XX
 PD 28-NOV-2002.
 XX
 PF 15-OCT-2001; 2001US-00978192.
 XX
 PR 17-OCT-1997; 97US-0062250P.
 PR 03-NOV-1997; 97US-0064249P.
 PR 13-NOV-1997; 97US-0065311P.
 PR 21-NOV-1997; 97US-0066364P.
 PR 10-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077632P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 12-MAR-1998; 98US-0077791P.
 PR 13-MAR-1998; 98US-0078004P.
 PR 17-MAR-1998; 98US-00040220.
 PR 20-MAR-1998; 98US-0078886P.

PR 20-MAR-1998; 98US-0078910P.
 PR 20-MAR-1998; 98US-0078936P.
 PR 25-MAR-1998; 98US-0078939P.
 PR 26-MAR-1998; 98US-0079294P.
 PR 27-MAR-1998; 98US-0079656P.
 PR 27-MAR-1998; 98US-0079663P.
 PR 27-MAR-1998; 98US-0079664P.
 PR 27-MAR-1998; 98US-0079689P.
 PR 27-MAR-1998; 98US-0079728P.
 PR 30-MAR-1998; 98US-0079786P.
 PR 30-MAR-1998; 98US-0079920P.
 PR 30-MAR-1998; 98US-0079923P.
 PR 26-JUN-1998; 98US-00105413.
 PR 07-OCT-1998; 98US-00168978.
 PR 07-OCT-1998; 98US-0021141.
 PR 02-NOV-1998; 98US-00184216.
 PR 06-NOV-1998; 98US-00187368.
 PR 20-NOV-1998; 98US-0024855.
 PR 07-DEC-1998; 98US-00202054.
 PR 22-DEC-1998; 98US-00218517.
 PR 05-JAN-1999; 99US-00000106.
 PR 05-MAR-1999; 99US-00254465.
 PR 08-MAR-1999; 99US-00050528.
 PR 10-MAR-1999; 99US-00265686.
 PR 10-MAR-1999; 99US-0005190.
 PR 12-MAR-1999; 99US-00267213.
 PR 12-APR-1999; 99US-00284291.
 PR 14-MAY-1999; 99US-00311832.
 PR 02-JUN-1999; 99US-0010723.
 PR 25-AUG-1999; 99US-0012252.
 PR 25-AUG-1999; 99US-00380137.
 PR 25-AUG-1999; 99US-00380138.
 PR 25-AUG-1999; 99US-00380142.
 PR 30-NOV-1999; 99US-0028313.
 PR 02-DEC-1999; 99US-0028551.
 PR 02-DEC-1999; 99US-0028565.
 PR 16-DEC-1999; 99US-0030095.
 PR 30-DEC-1999; 99US-0031243.
 PR 30-DEC-1999; 99US-0031274.
 PR 05-JAN-2000; 2000US-0000219.
 PR 06-JAN-2000; 2000US-0000277.
 PR 11-FEB-2000; 2000US-000376.
 PR 18-FEB-2000; 2000US-0003565.
 PR 24-FEB-2000; 2000US-000341.
 PR 02-MAR-2000; 2000US-0005004.
 PR 02-MAR-2000; 2000US-0005841.
 PR 21-MAR-2000; 2000US-0006319.
 PR 30-MAR-2000; 2000US-0007532.
 PR 17-MAY-2000; 2000US-0008439.
 PR 22-MAY-2000; 2000US-0013705.
 PR 30-MAY-2000; 2000US-0014042.
 PR 02-JUN-2000; 2000US-0014941.
 PR 28-JUL-2000; 2000US-0015264.
 PR 24-AUG-2000; 2000US-0020710.
 PR 08-NOV-2000; 2000US-00709238.
 PR 27-NOV-2000; 2000US-00723749.
 PR 01-DEC-2000; 2000US-00732678.
 PR 20-DEC-2000; 2000US-00747259.
 PR 20-DEC-2000; 2000US-0074956.
 PR 28-FEB-2001; 2001US-0006520.
 PR 22-MAR-2001; 2001US-00816744.
 PR 22-MAR-2001; 2001US-00816920.
 PR 22-MAR-2001; 2001US-0090552.
 PR 10-MAY-2001; 2001US-00854208.
 PR 10-MAY-2001; 2001US-00854280.
 PR 25-MAY-2001; 2001US-00872035.
 PR 01-JUN-2001; 2001US-00872035.
 PR 01-JUN-2001; 2001US-00872035.
 PR 05-JUN-2001; 2001US-00874503.
 PR 14-JUN-2001; 2001US-00882636.
 PR 19-JUN-2001; 2001US-00886342.
 PR 20-JUN-2001; 2001US-0019692.

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PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
XX Kijavini IJ, Kuo SS, Napier MA, Pan J, Roy MA, Shelton DL;
XX Stewart TA, Tumas D, Williams PM, Wood WI;
XX
XX WPI; 2003-328499/31.
XX N-PSDB; ACAV1801.
XX
XX New isolated PRO polypeptides e.g. PRO213, PRO274 and PRO300, for use as
XX pharmaceuticals, diagnostics, biosensors and bioreactors, for identifying
XX modulators of receptor-ligand interactions.
XX
XX Claim 12; SEQ ID NO 211; 55pp; English.
XX
XX The invention relates to an isolated secreted and transmembrane
XX polypeptide, designated as PRO polypeptide. The PRO polypeptide is useful
XX in PRO polypeptide detection methods. The PRO polypeptide is useful for
XX linking a bioactive molecule to a cell. The PRO polypeptide or an
XX antibody against it is useful for modulating a biological activity of a
XX cell. The PRO polypeptide is useful in industrial applications including
XX pharmaceuticals, diagnostics, biosensors and bioreactors. The PRO
XX polypeptide is also useful as a thrombolytic agent, interferon,
XX interleukin, erythropoietin, colony stimulating factor and other
XX cytokines. The PRO polypeptide is useful for treating disease such as
XX cancer e.g. colorectal carcinoma; apoptosis related conditions e.g. AIDS,
XX amyotrophic lateral sclerosis; inflammatory disease e.g. asthma,
XX atherosclerosis; neurodegenerative disease e.g. Alzheimer's disease,
XX Parkinson's disease; cardiovascular disease e.g. hypertension and
XX myocardial ischaemia; kidney disease e.g. renal failure and
XX glomerulonephritis; lung disease e.g. pulmonary hypertension, bronchial
XX asthma; gastrointestinal disorders e.g. gastric ulcer and inflammatory
XX bowel disease; reproductive disorders e.g. premature labour and
XX preclampsia; carcinogenesis. The present sequence represents the amino
XX acid sequence of a PRO polypeptide of the invention. Note: The sequence
XX data for this patent did not form part of the printed specification but
XX was obtained in electronic format directly from USPTO at
XX seqdata.uspto.gov/sequence.html?DocID=20020177553
XX
XX Sequence 985 AA;
XX
XX Query Match 48.8%; Score 148; DB 6; Length 985;
XX Best Local Similarity 100.0%; Pred. No. 3.5e-130;
XX Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 55 ASGQPPPTIRWLNGQPLSMVPPPHLLPDGTLILLQPPARGHAHQALSTDLGYTC 114
XX |||||
XX 33 ASGQPPPTIRWLNGQPLSMVPPPHLLPDGTLILLQPPARGHAHQALSTDLGYTC 92
XX |||||
XX 115 EASNRLGTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 174
XX |||||
XX 93 EASNRLGTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 152
XX |||||
XX 175 GKPLALQGRHTVSGGSLLMARAEKSD 202
XX |||||
XX 153 GKPLALQGRHTVSGGSLLMARAEKSD 180
XX |||||
XX
XX RESULT 9
XX ABU61102
XX ID ABU61102 standard; protein; 985 AA.
XX
XX AC ABU61102;
XX
XX 08-MAY-2003 (first entry)
XX
XX Human PRO860 polypeptide.

```

```

XX KW Human; PRO polypeptide; secreted and transmembrane protein;
XX KW immune disorder; diabetes; hyper-insulinaemia; hypo-insulinaemia;
XX KW cardiac insufficiency; nervous system disorder; kidney disorder;
XX KW bone disorder; cartilage disorder; arthritis; tumour; wound healing;
XX KW genetic disorder; cytostatic; antidiabetic; antiinflammatory;
XX KW antiarthritic; anti-tumour; vulnery; antianaemic; dermatological;
XX KW cardiant.
XX
XX Homo sapiens.
XX
XX US2002169284-A1.
XX
XX 14-NOV-2002.
XX
XX 16-OCT-2001; 2001US-00978697.
XX
XX 26-MAY-1981; 81US-00267213.
XX 17-OCT-1997; 97US-0062250P.
XX 03-NOV-1997; 97US-0064249P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0065364P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077641P.
XX 12-MAR-1998; 98US-0077649P.
XX 12-MAR-1998; 98US-0077791P.
XX 13-MAR-1998; 98US-0078004P.
XX 17-MAR-1998; 98US-00040220.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078910P.
XX 20-MAR-1998; 98US-0078936P.
XX 20-MAR-1998; 98US-0078939P.
XX 25-MAR-1998; 98US-0079294P.
XX 26-MAR-1998; 98US-0079656P.
XX 27-MAR-1998; 98US-0079663P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079689P.
XX 27-MAR-1998; 98US-0079728P.
XX 27-MAR-1998; 98US-0079786P.
XX 30-MAR-1998; 98US-0079920P.
XX 30-MAR-1998; 98US-0079923P.
XX 26-JUN-1998; 98US-00105413.
XX 07-OCT-1998; 98US-00188978.
XX 07-OCT-1998; 98WO-US021141.
XX 02-NOV-1998; 98US-00184216.
XX 06-NOV-1998; 98US-00187368.
XX 02-NOV-1998; 98WO-US024855.
XX 07-DEC-1998; 98US-00202054.
XX 22-DEC-1998; 98US-00218517.
XX 05-JAN-1999; 99WO-US000106.
XX 05-MAR-1999; 99US-00254465.
XX 08-MAR-1999; 99US-00265686.
XX 10-MAR-1999; 99US-0005190.
XX 12-APR-1999; 99US-00284291.
XX 14-MAY-1999; 99US-00311832.
XX 14-MAY-1999; 99WO-US010733.
XX 02-JUN-1999; 99WO-US012252.
XX 25-AUG-1999; 99US-00380137.
XX 25-AUG-1999; 99US-00380138.
XX 25-AUG-1999; 99US-00380142.
XX 30-NOV-1999; 99WO-US028313.
XX 02-DEC-1999; 99WO-US028551.
XX 02-DEC-1999; 99WO-US028565.
XX 16-DEC-1999; 99WO-US030095.
XX 30-DEC-1999; 99WO-US031243.
XX 30-DEC-1999; 99WO-US031274.
XX 05-JAN-2000; 2000WO-US000219.
XX 06-JAN-2000; 2000WO-US000277.
XX 11-FEB-2000; 2000WO-US000376.
XX 18-FEB-2000; 2000WO-US003565.
XX 18-FEB-2000; 2000WO-US004341.

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PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 10-MAR-2000; 2000WO-US006319.
PR 21-MAR-2000; 2000WO-US007532.
PR 30-MAR-2000; 2000WO-US008439.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 28-JUL-2000; 2000WO-US020710.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000US-00709238.
PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000US-00747259.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001US-00816744.
PR 22-MAR-2001; 2001US-00816920.
PR 10-MAY-2001; 2001WO-US009552.
PR 10-MAY-2001; 2001US-00854208.
PR 25-MAY-2001; 2001US-00854280.
PR 01-JUN-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 14-JUN-2001; 2001US-00874503.
PR 19-JUN-2001; 2001US-00886342.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
XX
XX (GETH) GENENTECH INC.

PI Ashkenazi A, Baker KP, Botstein D, Desnoyers L, Eaton D;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen MB;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Klijavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX
XX WPI; 2003-288163/28.
XX N-PSDB; ABX92441.

XX Novel secreted and transmembrane polypeptides and polynucleotides
XX encoding them useful for treating cancer, kidney diseases, bone,
XX cartilage disorders and immune deficiencies.

XX Claim 12; Fig 77; 45ppp; English.

XX The present invention relates to the isolation of novel human PRO
XX polypeptides, and the polynucleotide sequences encoding them. The PRO
XX polypeptides are secreted and transmembrane proteins. The PRO
XX polypeptides are useful for detecting other PRO polypeptides, for linking
XX bioactive molecules to cells expressing PRO polypeptides, for modulating
XX biological activities of cells expressing PRO polypeptides, and for
XX identifying agonists or antagonists. The bioactive molecule maybe a
XX toxin, radiolabel or antibody, and causes apoptosis or death of the cell.
XX The PRO polypeptides are useful for treating immune disorders, diabetes
XX or hyper- or hypo-insulinaemia, cardiac insufficiency, nervous system
XX disorders, kidney disorders, bone and cartilage disorders or arthritis,
XX tumours, and wound healing. The polynucleotide sequences encoding PRO
XX polypeptides are useful as hybridisation probes, in chromosome and gene
XX mapping, in the generation of antisense RNA and DNA, in the preparation
XX of PRO polypeptides, for generating transgenic animals or knockout
XX animals, for the genetic analysis of individuals with genetic disorders,
XX and in gene therapy. ABU61071-ABU61164 represent the human PRO
XX polypeptides of the invention. Note: The sequence data for this patent
XX was obtained in electronic format directly from the USPTO web site at
XX seqdata.uspto.gov/psipdbEntry.html

XX Sequence 985 AA;

Query Match 48.8%; Score 148; DB 6; Length 985;
Best Local Similarity 100.0%; Pred. No. 3.5e-130;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 55 ASGQPEPTIRWLLNGOPLSMVPPDPHLLPDGTTLLLOPPARGHARDGOALSTDLGVYTC 114
Db 33 ASGQPEPTIRWLLNGOPLSMVPPDPHLLPDGTTLLLOPPARGHARDGOALSTDLGVYTC 92
QY 115 EASNRLGTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSMWKD 174
Db 93 EASNRLGTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSMWKD 152
QY 175 GKPLALQPGRHTVSGSLLMARAEKSDE 202
Db 153 GKPLALQPGRHTVSGSLLMARAEKSDE 180

RESULT 10

ABU80371
ID ABU80371 standard; protein; 985 AA.
XX
AC ABU80371;
XX
DT 24-JUN-2003 (first entry)
XX
DE Human secreted/transmembrane protein PRO860.
XX
KW Human; secreted protein; transmembrane protein; PRO; malignancy; cancer;
KW ovarian cancer; colorectal cancer; sarcoma; leukaemia; lymphoma;
KW inflammatory disease; necrosis; atherosclerosis; infertility;
KW premature aging; psoriasis; inflammatory disease; renal disease;
KW arthritis; immune-mediated alopecia; stroke; encephalitis; hepatitis;
KW multiple sclerosis; gene therapy.

OS Homo sapiens.

XX US2003004102-A1.

XX 02-JAN-2003.

XX 15-OCT-2001; 2001US-00978189.

XX 17-OCT-1997; 97US-0062250P.

XX 03-NOV-1997; 97US-0064249P.

XX 13-NOV-1997; 97US-0065311P.

XX 21-NOV-1997; 97US-0066364P.

XX 10-MAR-1998; 98US-0077450P.

XX 11-MAR-1998; 98US-0077632P.

XX 11-MAR-1998; 98US-0077641P.

XX 12-MAR-1998; 98US-0077649P.

XX 13-MAR-1998; 98US-0077791P.

XX 17-MAR-1998; 98US-00040220.

XX 20-MAR-1998; 98US-0078886P.

XX 20-MAR-1998; 98US-0078910P.

XX 20-MAR-1998; 98US-0078936P.

XX 25-MAR-1998; 98US-0078939P.

XX 26-MAR-1998; 98US-0079294P.

XX 27-MAR-1998; 98US-0079656P.

XX 27-MAR-1998; 98US-0079663P.

XX 27-MAR-1998; 98US-0079664P.

XX 27-MAR-1998; 98US-0079728P.

XX 27-MAR-1998; 98US-0079786P.

XX 30-MAR-1998; 98US-0079920P.

XX 26-MAR-1998; 98US-0079923P.

XX 26-JUN-1998; 98US-00105413.

XX 07-OCT-1998; 98US-00168978.

XX 02-NOV-1998; 98US-00184216.

XX 06-NOV-1998; 98US-00187368.

XX 20-NOV-1998; 98US-0024855.

XX 07-DEC-1998; 98US-00202054.

PR 24-AUG-2000; 2000WO-US023328.
PR 01-DEC-2000; 2000WO-US032678.
PR 20-DEC-2000; 2000WO-US034956.
PR 28-FEB-2001; 2001WO-US006520.
PR 22-MAR-2001; 2001WO-US009552.
PR 25-MAY-2001; 2001WO-US017092.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 30-JUL-2001; 2001US-00918585.
XX PA (GETH) GENENTECH INC.
XX PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
PI Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI; 2003-521814/49.
DR DR N-PSDB; ADA24749.
XX PT New isolated PRO polypeptides for example extracellular, secreted and
XX PT membrane bound proteins, useful for modulating the biological activities
XX PT of cells and for treating, for example diabetes, cancer, rheumatoid
XX PT arthritis, and hearing loss.
XX PS Claim 12; Fig 77; 461pp; English.
XX CC The invention describes an isolated secreted and transmembrane (PRO)
CC polypeptide (I). PRO337 polypeptide is useful for detecting PRO4993
CC polypeptide in a sample, and vice versa. PRO725, PRO700 and PRO739 are
CC useful for detecting PRO1559 polypeptide in a sample, and PRO1559 is
CC useful for detecting PRO725, PRO700 and PRO739 in a sample. PRO4993 is
CC useful for linking a bioactive molecule to a cell expressing a PRO337
CC polypeptide, and PRO337 is useful for linking a bioactive molecule to a
CC cell expressing a PRO4993 polypeptide. PRO1559 is useful for linking a
CC bioactive molecule to a cell expressing a PRO735, PRO700 and PRO739
Query Match 48.8%; Score 148; DB 6; Length 985;
Best Local Similarity 100.0%; Pred. No. 3; Se-130;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 55 ASGQPPPTIRWLNQPLSMVPPDPHLLPDGTLILLQPPARGHAHQALSTDLGVYTC 114
Db 33 ASGQPPPTIRWLNQPLSMVPPDPHLLPDGTLILLQPPARGHAHQALSTDLGVYTC 92
Qy 115 EASNRLGTAVSRGARLSVAVLRDFQIPRDMVAVGVEQFTLECGPWGHPPTVSWWKD 174
Db 93 EASNRLGTAVSRGARLSVAVLRDFQIPRDMVAVGVEQFTLECGPWGHPPTVSWWKD 152
Qy 175 GKPLALQPGRTVSGGSLMARAKSDE 202
Db 153 GKPLALQPGRTVSGGSLMARAKSDE 180
RESULT 12
ABO19673
ID ABO19673 standard; protein; 985 AA.
XX AC ABO19673;
XX DT 08-SEP-2003 (first entry)
XX DE Novel human secreted and transmembrane protein PRO860.
XX KW Human; secreted and transmembrane protein; PRO; cell death; neuropathy;
KW peripheral neuropathy; diabetic peripheral neuropathy;
KW AIDS-associated neuropathy; Charcot-Marie-Tooth disease;
KW Refsum's disease; Abetalipoproteinemia; Tangier disease;
KW Krabbe's disease; Metachromatic leukodystrophy; Fabry's disease;
KW Dejerine-Sottas syndrome; chromosome mapping; gene mapping; gene therapy.

XX OS Homo sapiens.
XX PN US2003050240-A1.
XX PD 13-MAR-2003.
XX PF 16-OCT-2001; 2001US-00978403.
XX PR 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077644P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 20-MAR-1998; 98US-0078866P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 31-MAR-1998; 98US-0079923P.
PR 31-MAR-1998; 98US-0080105P.
PR 31-MAR-1998; 98US-0080107P.
PR 31-MAR-1998; 98US-0080165P.
PR 31-MAR-1998; 98US-0080194P.
PR 01-APR-1998; 98US-0080227P.
PR 01-APR-1998; 98US-0080328P.
PR 01-APR-1998; 98US-0080333P.
PR 01-APR-1998; 98US-0080334P.
PR 08-APR-1998; 98US-0081049P.
PR 08-APR-1998; 98US-0081070P.
PR 08-APR-1998; 98US-0081071P.
PR 09-APR-1998; 98US-0081195P.
PR 09-APR-1998; 98US-0081203P.
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PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
PR 22-APR-1998; 98US-0082700P.
PR 22-APR-1998; 98US-0082704P.
PR 22-APR-1998; 98US-0082797P.
PR 22-APR-1998; 98US-0082804P.
PR 23-APR-1998; 98US-0082796P.
PR 28-APR-1998; 98US-0083366P.
PR 28-APR-1998; 98US-0083322P.
PR 29-APR-1998; 98US-0083392P.
PR 29-APR-1998; 98US-0083495P.
PR 29-APR-1998; 98US-0083496P.
PR 29-APR-1998; 98US-0083499P.
PR 29-APR-1998; 98US-0083500P.
PR 29-APR-1998; 98US-0083545P.
PR 29-APR-1998; 98US-0083554P.
PR 29-APR-1998; 98US-0083558P.
PR 29-APR-1998; 98US-0083559P.
PR 30-APR-1998; 98US-0083742P.
PR 05-MAY-1998; 98US-0084366P.
PR 06-MAY-1998; 98US-0084414P.
PR 06-MAY-1998; 98US-0084441P.

07-MAY-1998;	98US-0084598P.	PR	28-JUL-2000; 2000WO-US020710.	PR	Novel secreted and transmembrane polypeptide for modulating biological activity of cell expressing the polypeptide, identifying agonists or antagonists of polypeptide, and as molecular weight markers.	XX
07-MAY-1998;	98US-0084600P.	PR	24-AUG-2000; 2000WO-US023328.	PR	Claim 12; Fig 77; 459pp; English.	XX
07-MAY-1998;	98US-0084627P.	PR	01-DEC-2000; 2000WO-US032678.	PR	The invention describes an isolated, secreted and transmembrane polypeptide, termed PRO polypeptide (I). (I) is useful for detecting linking a bioactive molecule to a cell expressing the above polypeptides.	CC
07-MAY-1998;	98US-0084637P.	PR	20-DEC-2000; 2000WO-US034956.	PR	PRO1993, PRO337, PRO1559, PRO725, PRO700 or PRO739 polypeptide, and for the bioactive molecule is a toxin, radiolabel or an antibody and causes cell death. (I) is useful as therapeutic agent, in medical and industrial applications e.g. for treating neuropathy, especially peripheral neuropathy, diabetic peripheral neuropathy, AIDS-associated neuropathy, Charcot-Marie-Tooth disease, Refsum's disease, Abetalipoproteinemia, Tangier disease, Krabbe's disease, Metachromatic leukocystopathy, Fabry's	CC
07-MAY-1998;	98US-0084639P.	PR	28-FEB-2001; 2001WO-US006520.	PR	Query Match 48.8%; Score 148; DB 6; Length 985;	QY
07-MAY-1998;	98US-0084640P.	PR	22-MAR-2001; 2001WO-US009552.	PR	Best Local Similarity 100.0%; Pred. No. 3.5e-130;	Db
07-MAY-1998;	98US-0084643P.	PR	25-MAY-2001; 2001WO-US017092.	PR	Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps. 0;	QY
13-MAY-1998;	98US-0085323P.	PR	01-JUN-2001; 2001WO-US017800.	PR	55 ASGGPPPTIRWLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAGDGLSTDLGVYTC 114	Db
13-MAY-1998;	98US-0085338P.	PR	20-JUN-2001; 2001WO-US019692.	PR	33 ASGGPPPTIRWLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAGDGLSTDLGVYTC 92	QY
15-MAY-1998;	98US-0085573P.	PR	29-JUN-2001; 2001WO-US021066.	PR	115 EASNRLGTAVSRGARLSVAVLRDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 174	Db
15-MAY-1998;	98US-0085579P.	PR	03-JUL-2001; 2001WO-US021735.	PR	93 EASNRLGTAVSRGARLSVAVLRDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKD 152	QY
15-MAY-1998;	98US-0085580P.	PR	30-JUL-2001; 2001US-00918585.	PR	175 GKPLALQGRHTVSGSLLMARAEKSD 202	Db
15-MAY-1998;	98US-0085582P.	PR	(GETH) GENENTECH INC.	XX	153 GKPLALQGRHTVSGSLLMARAEKSD 180	QY
15-MAY-1998;	98US-0085689P.	PR	Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL; Ferrera N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME; Kaddour A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Kijavain IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL; Stewart IA, Tumas D, Williams PM, Wood WL;	XX	RESULT 13	ADAL12411
15-MAY-1998;	98US-0085697P.	PI	WPI; 2003-503575/47.	PI	ID ADAL12411 standard; protein; 985 AA.	XX
15-MAY-1998;	98US-0085700P.	PI	N-P8DB; ACD29783.	PI	AC ADAL12411;	XX
15-MAY-1998;	98US-0085704P.	PI		PI	DT 06-NOV-2003 (first entry)	DT
18-MAY-1998;	98US-0086023P.	PI		PI	Human secreted/transmembrane polypeptide PRO860.	XX
22-MAY-1998;	98US-0086392P.	PI		PI	inflammatory disease; organ failure; atherosclerosis; cardiac injury; infertility; birth defect; premature aging; AIDS; cancer;	XX
22-MAY-1998;	98US-0086414P.	XX		XX	diabetic complication; tissue typing; human.	XX
22-MAY-1998;	98US-0086430P.	DR		DR	Hom sapiens.	OS
22-MAY-1998;	98US-0086486P.	DR		DR		
28-MAY-1998;	98US-0087098P.	XX		XX		
28-MAY-1998;	98US-0087106P.	PT		PT		
28-MAY-1998;	98US-0087208P.	PT		PT		
26-JUN-1998;	98US-0090863P.	PT		PT		
26-JUN-1998;	98US-0091010P.	XX		XX		
01-JUL-1998;	98US-0091359P.	PS		PS		
30-JUL-1998;	98US-0094651P.	XX		XX		
11-SEP-1998;	98US-0100038P.	CC		CC		
07-OCT-1998;	98WO-US021141.	CC		CC		
20-NOV-1998;	98US-0109304P.	CC		CC		
20-NOV-1998;	98WO-US024855.	CC		CC		
22-DEC-1998;	98US-0113296P.	CC		CC		
23-DEC-1998;	98US-0113621P.	CC		CC		
08-JAN-1999;	98WO-US000106.	CC		CC		
08-MAR-1999;	99WO-US005028.	CC		CC		
10-MAR-1999;	99WO-US005190.	CC		CC		
12-MAR-1999;	99US-0123957P.	CC		CC		
29-MAR-1999;	99US-0126773P.	CC		CC		
21-APR-1999;	99US-0130232P.	CC		CC		
26-APR-1999;	99US-0131022P.	CC		CC		
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14-MAY-1999;	99US-0134287P.	CC		CC		
14-MAY-1999;	99WO-US010733.	CC		CC		
02-JUN-1999;	99WO-US012252.	CC		CC		
16-JUN-1999;	99US-0139557P.	CC		CC		
23-JUN-1999;	99US-0141037P.	CC		CC		
07-JUL-1999;	99US-0142680P.	CC		CC		

XX US200305216-A1.
XX 20-MAR-2003.
XX 17-OCT-2001; 2001US-00978824.
XX 21-MAY-1996; 96US-0018049P.
XX 17-OCT-1997; 97US-0062250P.
XX 03-NOV-1997; 97US-0064249P.
XX 13-NOV-1997; 97US-0065311P.
XX 21-NOV-1997; 97US-0066364P.
XX 10-MAR-1998; 98US-0077450P.
XX 11-MAR-1998; 98US-0077632P.
XX 11-MAR-1998; 98US-0077641P.
XX 11-MAR-1998; 98US-0077649P.
XX 12-MAR-1998; 98US-0077791P.
XX 13-MAR-1998; 98US-0078004P.
XX 17-MAR-1998; 98US-00040220.
XX 20-MAR-1998; 98US-0078886P.
XX 20-MAR-1998; 98US-0078910P.
XX 20-MAR-1998; 98US-0078936P.
XX 20-MAR-1998; 98US-0078939P.
XX 25-MAR-1998; 98US-0079294P.
XX 26-MAR-1998; 98US-0079656P.
XX 27-MAR-1998; 98US-0079663P.
XX 27-MAR-1998; 98US-0079664P.
XX 27-MAR-1998; 98US-0079689P.
XX 27-MAR-1998; 98US-0079728P.
XX 27-MAR-1998; 98US-0079786P.
XX 30-MAR-1998; 98US-0079920P.
XX 30-MAR-1998; 98US-0079923P.
XX 31-MAR-1998; 98US-0080105P.
XX 31-MAR-1998; 98US-0080107P.
XX 31-MAR-1998; 98US-0080165P.
XX 31-MAR-1998; 98US-0080194P.
XX 01-APR-1998; 98US-0080327P.
XX 01-APR-1998; 98US-0080328P.
XX 01-APR-1998; 98US-0080333P.
XX 01-APR-1998; 98US-0080334P.
XX 08-APR-1998; 98US-0081070P.
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XX 15-APR-1998; 98US-0081817P.
XX 15-APR-1998; 98US-0081819P.
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XX 15-APR-1998; 98US-0081952P.
XX 15-APR-1998; 98US-0081955P.
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XX 22-APR-1998; 98US-0082704P.
XX 22-APR-1998; 98US-0082797P.
XX 22-APR-1998; 98US-0082804P.
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XX 28-APR-1998; 98US-0083322P.
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 PR 29-JUN-2001; 2001WO-US021066.
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 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen MB;
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 KW tumour growth; retinal disorder; injury; sight loss;
 KW retinitis pigmentosum; age-related macular degeneration;
 KW sport-related joint problem; articular cartilage defect; osteoarthritis;

KW rheumatoid arthritis; wound healing; obesity; diabetes; insulinaemia;
 KW kidney disorder; mesangial cell function; Berger disease; nephropathy;
 KW celiac disease; dermatitis; Crohn disease; neuropathy;
 KW cardiac insufficiency disorder; peripheral neuropathy;
 KW diabetic peripheral neuropathy; autonomic neuropathy;
 KW reduced motility of the gastrointestinal tract;
 KW atony of the urinary bladder; post polio syndrome; Krabbe's disease;
 KW Charcot-Marie-Tooth disease; Fabry's disease; Tangier disease;
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PR 29-MAR-1999;	99US-0126773P.		
PR 12-APR-1999;	99US-00284291.		
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- XX AC
- XX ADB73717;
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- XX Human PRO polypeptide #32.
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- XX cell death; neuropathy; neuropathy related disease;
- KW Charcot-Marie-Tooth disorder; refsum's disease; Krabbe's disease;
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PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
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PR 24-FEB-2000; 2000WO-US005004.
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Job time : 81 secs

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GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 29, 2004, 22:51:23 ; Search time 455 Seconds

(without alignments)
2829.020 Million cell updates/sec

Title: US-10-047-021-86

Perfect score: 303

Sequence: 1 MGSQGSLLGGSGSLPLLLL.....SGPRLPREARELGRORNTG 303

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Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 3373863 seqs, 2124099041 residues

Word size: 1

Total number of hits satisfying chosen parameters: 6745146

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	148	48.8	3716	3	AAC78502	Aac78502	Human PRO
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11	148	48.8	3716	7	ACA66182	Aca66182	Human CDN
12	148	48.8	3716	8	ADA24749	Ada24749	Novel hum
13	148	48.8	3716	8	ACD29783	Acd29783	Novel hum
14	148	48.8	3716	8	ADA12410	Ada12410	Human CDN
15	148	48.8	3716	8	ACD29198	Acd29198	Novel hum
16	148	48.8	3716	9	ADB73716	Adb73716	Human PRO
17	148	48.8	3716	9	ADB76432	Adb76432	Human PRO
18	148	48.8	3716	9	ADC43858	Adc43858	Human CDN
19	148	48.8	3716	9	ADC61618	Adc61618	Human CDN
20	148	48.8	3716	9	ADC63582	Adc63582	Human CDN
21	148	48.8	3716	9	ADC66682	Adc66682	Human CDN
22	148	48.8	3716	9	ADC68806	Adc68806	Human CDN
23	148	48.8	3716	9	ADC62866	Adc62866	Human CDN
24	148	48.8	3716	9	ADC67931	Adc67931	Human CDN
25	148	48.8	3716	9	ADC41251	Adc41251	Human CDN
26	148	48.8	3716	9	ADC67306	Adc67306	Human CDN
27	148	48.8	3716	9	ADC62242	Adc62242	Human CDN
28	148	48.8	3716	9	ADC41875	Adc41875	Human CDN
29	148	48.8	3716	9	ADE49244	Ade49244	Human CDN
30	148	48.8	3716	9	ADE35298	Ade35298	Human CDN
31	148	48.8	3716	9	ADE16412	Ade16412	Human CDN
32	148	48.8	3716	9	ADD73027	Add73027	Human CDN
33	148	48.8	3716	9	ADD72385	Add72385	Human CDN
34	148	48.8	3716	9	ADE17036	Ade17036	Human CDN
35	148	48.8	3716	10	ADE89645	Ade89645	Human CDN
36	148	48.8	3716	10	ADE89645	Ade89645	Human CDN
37	148	48.8	3808	4	AAH01695	Aah01695	Human TAN
38	120	39.6	756	4	AAH08234	Aah08234	Human CDN
39	120	39.6	4262	4	AAH18180	Aah18180	Human CDN
40	120	39.6	4262	5	AAH78073	Aah78073	Nucleotid
41	110	36.3	3042	4	AAH01694	Aah01694	Human TAN
42	40	13.2	232	3	AAZ42889	Aaz42889	Human 5'
43	33	10.9	299	4	AAS35325	Aas35325	Human ear
44	33	10.9	299	9	ADE45404	Ade45404	Human ear
45	30	9.9	1943	8	ACH04142	Ach04142	Human CDN

ALIGNMENTS

RESULT 1

ID AAX51721 standard; DNA; 1346 BP.

XX AC AAX51721;

XX DT 17-JUN-1999 (first entry)

XX DE DNA encoding a human secreted protein.

XX KW Human secreted protein; cancer; immune disorder; infection;

KW inflammatory disorder; skin disorder; tumour; atherosclerosis;

KW restenosis; autoimmune disorder; Alzheimer's disease;

KW peripheral neuropathy; trauma; spinal cord injury; allergy;

KW hematopoietic disorder; skeletal disorder; neurological disorder;

KW arthritic disorder; asthma; immunodeficiency disease; AIDS;

XX KW transplant rejection; ss.

XX OS Homo sapiens.

XX PN WO9911293-A1.

XX PD 11-MAR-1999.

XX PF 03-SEP-1998; 98WO-US018360.

XX PR 05-SEP-1997; 97US-0057626P.

PR 05-SEP-1997; 97US-0057663P.

PR 05-SEP-1997; 97US-0057669P.

PR 12-SEP-1997; 97US-0058666P.

PR 12-SEP-1997; 97US-0058666P.

PR 12-SEP-1997; 97US-0058973P.

PR 12-SEP-1997; 97US-0038974P.
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX Moore PA, Ruben SM, Lafleur DW, Shi Y, Rosen GA, Olsen HS;
 PI Ebner R, Brewer LA;
 XX WPI; 1999-204988/17.
 DR P-PSDB; AAY12934.
 XX New isolated human genes and the secreted polypeptides they encode -
 PT useful for diagnosis and treatment of e.g. neurological disorders,
 PT tumors, immune disorders, inflammation or hematological disorders.
 XX Claim 1; Page 165-166; 215pp; English.
 XX AAX51701-55 encode human secreted proteins. The polynucleotides and their
 CC corresponding secreted polypeptides are useful for preventing, treating
 CC or ameliorating medical conditions, e.g. by protein or gene therapy.
 CC Pathological conditions can also be diagnosed by determining the amount
 CC of the new polypeptides in a sample or by determining the presence of
 CC mutations in the new polynucleotides. Specific uses are described for
 CC each polynucleotide, based on which tissues they are most highly
 CC expressed in, and include developing products for the diagnosis or
 CC treatment of cancer, immune disorders, infection, inflammatory disorders,
 CC skin disorders, tumours, atherosclerosis, restenosis, autoimmune
 CC disorders, Alzheimer's disease, peripheral neuropathies, trauma, spinal
 CC cord injuries, allergy, hematopoietic disorders, skeletal disorders,
 CC neurological disorders, arthritic disorders, asthma, immunodeficiency
 CC diseases, AIDS and transplant rejection. The polypeptides are also useful
 CC for identifying their binding partners
 XX
 SQ Sequence 1346 BP; 318 A; 379 C; 376 G; 267 T; 0 U; 6 Other;

Alignment Scores:
 Pred. No.: 1,76e-263 Length: 1346
 Score: 300.00 Matches: 303
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 99.01% Indels: 0
 DB: 2 Gaps: 0

US-10-047-021-86 (1-303) x AAX51721 (1-1346)

QY 1 MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeu 20
 DB 31 ATGGGCTCTGGAGAGACAGCTCTGGGGGCGAGGGGTTCCCTGCTCTGCTGCTCTG 90
 QY 21 LeuileMetGlyGlyMetAlaGlnAspSerProProGlnIleLeuValHisProGlnAsp 40
 DB 91 CTCATCATGGGAGGAGCATGGCTCAGGACTCCCGGCCCGCCAGATCTAGTCCACCCCGAGGAC 150
 QY 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnProPro 60
 DB 151 CAGCTGTTCACAGGCGCTGGCCCTGCCAGATGAGCTGCCAGCCTCAGGCCAGCCACCT 210
 QY 61 ProThrIleArgTTPLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHis 80
 DB 211 CCCACCATCCGCTGGTTGCTGANTGGGAGCGCCCTGAGCATGTGTGCCCCAGACCCACAC 270
 QY 81 HisLeuLeuProAspGlyThrLeuLeuLeuLeuGlnProProAlaArgGlyHisAlaHis 100
 DB 271 CACCTCTCGCTGATGGAGCCCTTCTGCTGCTACAGCCCTCCCGGGGACATGCCAC 330
 QY 101 AspGlyGlnAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeu 120
 DB 331 GATGGCAGGCGGCTGTCCACAGACCTGGGTGCTTACACATGTGAGGCCACACCGGCTT 390
 QY 121 GlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGln 140
 DB 391 GGCACGCGAGTCACAGAGGCGCTCGGCTGTCTGTGCTGTCTCTCCGGGAGGATTTCCAG 450
 QY 141 IleGlnProArgAspMetValAlaValValGlyGlnPheThrLeuGluCysGlyPro 160

DB 451 ATCCAGCCTCGGACATGGTGGCTGGTGGTGGAGCAGTTTACTCTGGAATGTGGCGG 510
 QY 161 ProTrpGlyHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeu 180
 DB 511 CCTGGGGCCACCCAGAGCCACAGTCTCATGTGTGAAAGATGGGAAACCCCTGGCCCTC 570
 QY 181 GlnProGlyArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSer 200
 DB 571 GAGCCCGGAGGACACACAGTGTCCGGGGGTCCCTGCTGATGGCAGACAGAGAGT 630
 QY 201 AspGlu***ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAla 220
 DB 631 GACGAANGGACCTACATGTGTGTGGCCACCAACAGCGAGGACACAGGGAGCGCGCA 690
 QY 221 AlaArgValSerIleGlnGlnProGlnAspTyrThrGluProValGluLeuAlaVal 240
 DB 691 GCCCGGTTTCCATCCAGAGCCCGAGGACTACCGAGCCTGTGGAGCTTCTGGCTGTG 750
 QY 241 ArgIleGlnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysPro 260
 DB 751 CGAATTTCAGCTGGAATGTGACACTCTGAACCGGATCTCGCAGARGGCCCAAGCCT 810
 QY 261 ArgProAlaValTrpLeu***TrpLysValSerGlyPro***ArgLeuProAsnLeuThr 280
 DB 811 AGACCGCGGTGTGGCTCARTCGGAARTCAGTGGCCCTNTGGCGCTGCCCAATCTTACA 870
 QY 281 ArgProCysSerGlyProArgLeuProArgGluAlaArgGluLeuArgGlyGlnArgArg 300
 DB 871 CGGCTTGTTCAGGACCCAGACTGCCCGGGAGGCCAGGAGCTCCGTGGGCGAGGAGG 930
 QY 301 AsnThrGly 303
 DB 931 AACACAGGA 939

RESULT 2
 ABQ92573
 ID ABQ92573 standard; cDNA; 1346 BP.
 XX
 AC ABQ92573;
 XX
 DT 12-NOV-2002 (first entry)
 XX
 DE Human secreted protein encoding cDNA SEQ ID NO 31.
 XX
 KW Human; nootropic; neuroprotective; cytostatic; dermatological; virucide;
 KW immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;
 KW antiparkinsonian; antiskilling; antianaemic; antiarthritic; cancer;
 KW antirheumatic; hepatotropic; cerebroprotective; antiinflammatory;
 KW antiallergic; antidiabetic; antiulcer; anticonvulsant; antifungal;
 KW antiparasitic; cardiant; immune disorder; cardiovascular disorder;
 KW neurological disease; infection; nephrotropic; gene therapy; vaccine;
 KW gene; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO200257420-A2.
 XX
 XX 25-JUL-2002.
 XX
 XX 17-JAN-2002; 2002WO-US001109.
 XX
 XX 18-JAN-2001; 2001US-0262066P.
 XX
 XX (HUMA-) HUMAN GENOME SCI INC.
 XX
 XX Moore PA, Ruben SM, Lafleur DW, Shi Y, Rosen CA, Olsen H;
 PI Ebner R, Brewer LA;
 XX
 XX WPI; 2002-599716/64.
 DR P-PSDB; ABP62033.
 XX
 XX New polynucleotides and polypeptides useful for diagnosing, prognosing,

PT treating or preventing e.g. neurodegenerative, central nervous system, PT autoimmune, respiratory, reproductive, or inflammatory diseases or disorders.

XX Claim 1; Page 713-714; 785pp; English.

PS The invention relates to novel genes (ABQ2553-ABQ2607) and proteins CC (ABP62013-ABP62153) useful for preventing, treating or ameliorating CC medical conditions e.g. by protein or gene therapy. The genes are CC isolated from a range of human tissues disclosed in the specification. CC The nucleic acids, proteins, antibodies and (ant)agonists are useful in CC the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and CC ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, CC breast, gastrointestinal tract, liver, lung, or urogenital; (b) immune CC disorders e.g. Addison's disease, allergies, autoimmune haemolytic CC anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, CC multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) CC cardiovascular disorders such as myocardial ischaemias; (d) wound healing CC ; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) CC infectious diseases such as viral, bacterial, fungal and parasitic CC infections

XX SQ Sequence 1346 BP; 318 A; 379 C; 376 G; 267 T; 0 U; 6 Other;

Alignment Scores:
Pred. No.: 1,76e-263 Length: 1346
Score: 300.00 Matches: 303
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.01% Indels: 0
DB: 6 Gaps: 0

US-10-047-021-86 (1-303) x ABQ92573 (1-1346)

Qy 1 MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeu 20
Db 31 ATGGGGCTCTGGAGAGACACCCCTCTGGGGGAGGGGTTCCTGCTCTGCTGCTGCTG 90
Qy 21 LeuileMetGlyGlyMetAlaGlnAspSerProProGlnileLeuValHisProGlnAsp 40
Db 91 CTCTATCTGGAGGATGGCTCAGGACTCCCGCCCCCAGATCTTAGTCCACCCCGAGGAC 150
Qy 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnProPro 60
Db 151 CAGCTGTTCAGGGCCCTGGCCCTGCCAGGATGAGTGTCCGAGCCTCAGGCCAGCCACCT 210
Qy 61 ProThrileArgTTPLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHis 80
Db 211 CCCACCATCCCTGGTTGCTGATGGGAGCCCTGAGCATGTGCTCCCGCCAGCCACAC 270
Qy 81 HisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHis 100
Db 271 CACCTCTGCTGATGGACCCCTTCTGCTGCTACAGCCCTCTGCCCGGAGCATGCCAC 330
Qy 101 AspGlyGlnAlaLeuSerThrAspLeuGlyValTyThrCysGluAlaSerAsnArgLeu 120
Db 331 GATGCCAGGCCCCCTCCACAGCCTGGGTGTCTACACATGTGAGGCCAGCACCCGGCTT 390
Qy 121 GlyThrAlaValSerArgGlyValaArgLeuSerValAlaValLeuArgGluAspPheGln 140
Db 391 GGCACGGCAGTCACAGAGGGCTCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 450
Qy 141 IleGlnProArgAspMetValAlaValGlyGlnPheThrLeuGluCysGlyPro 160
Db 451 ATCCAGCCTCCGGACATGGTGGCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 510
Qy 161 ProTrpGlyHisProGluProThrValSerTrpTrpIysAspGlyLysProLeuAlaLeu 180
Db 511 CCTTGGGGCCACCCAGAGCCACAGTCTCATGTGTGGAAAGATGGAAACCCCTGGCCCTC 570
Qy 181 GlnProGlyArgHisThrValSerGlyLysLeuLeuMetAlaArgAlaGluLysSer 200
Db 571 CAGCCCCGAGGACACAGATGTCGGGGGGTCCCTGCTGTGTCGATGGCAGAGCAGAGAGT 630

Qy 201 AspGlu***ThrTyMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAla 220
Db 631 GACGAANGGACCTACATGTGTGCCCCAACACGCGCAGGACACAGGAGAGCGCGCA 690
Qy 221 AlaArgValSerIleGlnGluProGlnAspTyThrGluProValGluLeuAlaVal 240
Db 691 GCCCGGGTTTCCATCCAGGAGCCCGGAGCTACACGGAGCCTGTGGAGCTTCTGGCTGTG 750
Qy 241 ArgIleGlnLeuGluAsnValThrLeuLeuAsnProAspProAlaGlyGlyProIysPro 260
Db 751 CGAATTCAGCTGGAAATGTGACACTCTGAACCCGGATCTCGCAGARGGCCCAAGCCT 810
Qy 261 ArgProAlaValTTPLeu***TrpIysValSerGlyPro***ArgLeuProAsnLeuThr 280
Db 811 AGACCGGGGTGTGCTCARTCTGGNARTCAGTGGCCCTNTGGCCTGCCCAATCTTACA 870
Qy 281 ArgProCysSerGlyProArgLeuProArgGluAlaArgGluLeuArgGlyGlnArgArg 300
Db 871 CGGCTTGTTCAGGACCCAGACTGCCCGGGAGGCCAGGAGCTCCGTGGGAGAGGAGG 930
Qy 301 AsnThrGly 303
Db 931 AACACAGGA 939

RESULT 3

ABN59723

ID ABN59723 standard; cDNA; 3267 BP.

XX AC ABN59723;

XX DT 28-JUN-2002 (first entry)

DE Novel human coding sequence SEQ ID NO: 134.

XX Human; antianemic; vulnerary; antiinflammatory; immunomodulator;
KW antinfertility; cerebroprotective; cytostatic; rheumatic; gene therapy;
KW neuroprotective; antiparkinsonian; protein therapy; EST;
XX expressed sequence tag; Gene; ss.

OS Homo sapiens.

XX WO200222660-A2.

XX PD 21-MAR-2002.

XX PF 10-SEP-2001; 2001WO-US026015.

XX PR 11-SEP-2000; 2000US-00659671.

XX PA (HYSB-) HYSEQ INC.

XX PI Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;

XX PI Xue AJ, Yang Y, Wehrman T, Drmanac RT;

XX DR WPI; 2002-292408/33.

XX DR P-PSDB; ABB97310.

XX PT An isolated polynucleotide for treating diseases associated with its

XX PT encoded polypeptide such as cancer and multiple sclerosis.

XX PS Claim 1; SEQ ID NO 134; 509pp; English.

XX CC The present invention provides the protein and coding sequences of 444
CC novel human proteins. These were isolated from expressed sequences tags
CC (ESTs). They can be used to stimulate cell growth, to regulate
CC haematopoiesis e.g. to treat aplastic anaemia, to help tissue regrowth
CC e.g. in burn treatment, to regulate the immune system e.g. to treat
CC multiple sclerosis, to regulate haemostasis or thrombolysis e.g. to treat
CC infertility, to regulate haemostasis or thrombolysis e.g. to treat stroke
CC and cancer, to screen for drugs, to treat inflammatory conditions e.g.
CC rheumatoid arthritis, and to treat nervous system disorders e.g.
CC Parkinson's disease. The present sequence is a coding sequence of the

Db	70	ATGGGCTCGAGGACACACCTCTCGGGGGCAGGGTTCCCTCTGCTGCTCCTG	129	XX	08-MAR-1999;	99WO-US005028.
Qy	21	LeuileMetGlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAsp	40	XX	10-MAR-1998;	98US-0077450P.
Db	130	CTCATCTGGAGGATGGCTCAGGACTCCCGCCCGACATCTAGTCCACCCCGAGAC	189	PR	11-MAR-1998;	98US-0077632P.
Qy	41	GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArg-AlaserGlyGlnProPr	60	PR	11-MAR-1998;	98US-0077649P.
Db	190	CAGCTGTTCCAGGCGCTGGCCCTGCAGGATGAGCTGCCA-AGCTCAGGCCAGCCACC	248	PR	12-MAR-1998;	98US-0077791P.
Qy	60	oProThrIleArgTTrpLeuLeuAsnGlyGlnProLeuSerMetValProAspProHi	80	PR	13-MAR-1998;	98US-0078004P.
Db	249	TCCACCATCCCGCTGGTGTGTAATGGCAGACCCCTGAGCATGTGTCGCCCGGACCCACA	308	PR	17-MAR-1998;	98US-0080402P.
Qy	80	sHisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHi	100	PR	20-MAR-1998;	98US-0078866P.
Db	309	CCACCTCTCTGCTGATGGGACCTTTCTGCTACAGCCCTGCTCCCGGGACATGCCCA	368	PR	20-MAR-1998;	98US-0078910P.
Qy	100	sAspGlyGlnAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgIle	120	PR	20-MAR-1998;	98US-0078936P.
Db	369	CGATGGCAGCGCTGTCCACAGACCTGGGTGTCTACATGTGAGCCAGCAACCGGCT	428	PR	25-MAR-1998;	98US-0078939P.
Qy	120	uGlyThrAlaValSerArgGlyAlaArgIleSerValAlaValLeuArgGluAspPheG	140	PR	26-MAR-1998;	98US-0079656P.
Db	429	TGGCAGGCGAGTCAGCAGAGCGCTGGCTGTCTGTGGCTGTCTCCGGGAGATTTC	488	PR	27-MAR-1998;	98US-0079663P.
Qy	140	nIleGlnProArgAspMetValAlaValValGlyGlnPheThrLeuGluCysGlyPr	160	PR	27-MAR-1998;	98US-0079664P.
Db	489	GATCCAGCCTCGGACATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT	548	PR	27-MAR-1998;	98US-0079689P.
Qy	160	oProTTrpGlyHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaIle	180	PR	27-MAR-1998;	98US-0079728P.
Db	549	GCCTCGGGCCAGCCAGAGCCACAGTCTCATGTGTGAAAGATGGGAAACCCCTGGCCCT	608	PR	27-MAR-1998;	98US-0079786P.
Qy	180	uGlnProGlyArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSe	200	PR	30-MAR-1998;	98US-0079920P.
Db	609	CCAGCCCGAAGGACACACATGTGTCGGGGGTCTCTGCTGATGCGAAGCAGAGAGAG	668	PR	31-MAR-1998;	98US-0080105P.
Qy	200	rAspGlu***-ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgA	220	PR	31-MAR-1998;	98US-0080107P.
Db	669	TGACGAGG-GACCTACATGTGTGGCCACCAACAGCGCAGGACATAGGAGAGCGCG	727	PR	31-MAR-1998;	98US-0080165P.
Qy	220	laAlaArgValSerIleGlnGluProGlnAspTyrThrGluProValGluLeuLeuAlav	240	PR	01-APR-1998;	98US-0080333P.
Db	728	CAGCCCGGGTTTCATCCAGAGCCCGAGACTACACGGAGCTGTGGAGCTTCTGGCTG	787	PR	08-APR-1998;	98US-0080334P.
Qy	240	alArgIleGlnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysP	260	PR	08-APR-1998;	98US-0081049P.
Db	788	TGCGAATTCAGCTGGAAATGTGACACTGTGAACCCGGATCTGCAGAGGGCCCCAAGC	847	PR	08-APR-1998;	98US-0081070P.
Qy	260	roArgProAlaValTrpLeu 266		PR	09-APR-1998;	98US-0081195P.
Db	848	CTAGACCGCGGTGTGGCTC 867		PR	09-APR-1998;	98US-0081203P.
RESULT 5						98US-0081219P.
ID	AAZ34069 standard; cDNA; 3716 BP.					98US-0081817P.
XX	AAZ34069;					98US-0081838P.
AC	(first entry)					98US-0081952P.
DT	Human PRO860 nucleotide sequence.					98US-0082568P.
DE	Human; PRO; EST; expressed sequence tag; PCR primer; hybridisation;					98US-0082700P.
KW	probe; blood coagulation disorder; cancer; cellular adhesion disorder;					98US-0082704P.
XW	secreted protein; transmembrane protein; ss.					98US-0082804P.
XX	Homo sapiens.					98US-0082796P.
XX	WO9946281-A2.					98US-0083336P.
FN	16-SEP-1999.					98US-0083322P.
PD						98US-0083392P.

PR 15-MAY-1998; 98US-0085573P.
 PR 15-MAY-1998; 98US-0085573P.
 PR 15-MAY-1998; 98US-0085580P.
 PR 15-MAY-1998; 98US-0085580P.
 PR 15-MAY-1998; 98US-0085582P.
 PR 15-MAY-1998; 98US-0085689P.
 PR 15-MAY-1998; 98US-0085697P.
 PR 15-MAY-1998; 98US-0085700P.
 PR 15-MAY-1998; 98US-0085704P.
 PR 15-MAY-1998; 98US-0086023P.
 PR 22-MAY-1998; 98US-0086332P.
 PR 22-MAY-1998; 98US-0086414P.
 PR 22-MAY-1998; 98US-0086430P.
 PR 22-MAY-1998; 98US-0086486P.
 PR 28-MAY-1998; 98US-0087098P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 28-MAY-1998; 98US-0087208P.
 PR 30-JUL-1998; 98US-0094651P.
 PR 11-SEP-1998; 98US-0100038P.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Wood WI, Goddard A, Gurney A, Yuan J, Baker KP, Chen J;
 XX
 DR WPI; 1999-551358/46.
 DR P-FSDB; AAY41716.
 XX
 PT New secreted and transmembrane polypeptides and their polynucleotides,
 PT useful for treating blood coagulation disorders, cancers and cellular
 PT adhesion disorders.
 XX
 PS Claim 2; Fig 76; 530pp; English.
 XX
 CC The present invention describes secreted and transmembrane polypeptides
 CC and their polynucleotides. The nucleotide sequences are useful as sources
 CC of probes, primers, for chromosome mapping, and for generation of
 CC antisense sequences. They can also be used to create transgenic animals.
 CC The proteins can be used to treat a variety of diseases and disorders,
 CC depending on their function. Diseases that may be treated include blood
 CC coagulation disorders, cancers and cellular adhesion disorders. They may
 CC also be used to raise antibodies. AAZ33891 to AAZ34338, and AAY41685 to
 CC AAY41774 represent polynucleotide and polypeptide sequence given in the
 CC exemplification of the present invention
 XX
 SQ Sequence 3716 BP; 757 A; 1225 C; 1032 G; 702 T; 0 U; 0 Other;

Alignment Scores:
 Pred. No.: 1.39e-124 Length: 3716
 Score: 148.00 Matches: 261
 Percent Similarity: 98.49% Conservative: 0
 Best Local Similarity: 98.49% Mismatches: 2
 Query Match: 48.84% Indels: 4
 DB: 2 Gaps: 0

US-10-047-021-86 (1-303) x AAZ34069 (1-3716)

QY 4 GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuMet 23
 DB 1 GGAGGACAGCCCTCTGGGGGGGAGGGGTTCCCTGCTGCTGCTGCTGCTCATG 60
 QY 24 GlyGlyMetAlaGlnAspSerProGlnInLeuValHisProGlnAspGlnLeuPhe 43
 DB 61 GGAGGCAATGGCTCAGAGCTCCCGCCCGCCAGATCTAGTCCACCCCGAGGACCAAGCTGTTTC 120
 QY 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProProThrI 63
 DB 121 CAGGGCCCTGGCCCTGCAGAGTAGTGCCA-AGCCTAGGCGCAGCCACCTCCACCAT 179
 QY 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisIsteLeu 83
 DB 180 CCGCTGGTGTGTAATGGCAGGCCCTGAGCATGGTGGCCCGCCAGAGCCACCACTCCT 239
 QY 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyG 103

Db 240 GCCTGATGGGACCTTCTGCTGTACAGCCCTGCCCCGGGACATGCCACGATGGCCA 299
 QY 103 nAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeuGlyThrAl 123
 Db 300 GGCCCTGTCCACAGACCTGGGTGTCTACATGTAGGCCAGCAACCGCTTGGCAGCGC 359
 QY 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnGlnPr 143
 Db 360 AGTCAGCAGAGCGCTCGGCTGTCTGTGGCTGTCTCCGGGAGGATTTCCAGATCCAGCC 419
 QY 143 oArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyProProTrpGl 163
 Db 420 TCGGACATGTGGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 479
 QY 163 yHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeuGlnProGl 183
 Db 480 CCACCCAGAGCCACAGTCTCATGTGTGAAGATGGGAAACCCCTGGCCCTCCAGCCCG 539
 QY 183 yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu** 203
 Db 540 AAGGCACACAGTGTCCGGGGGTCTCTGCTGATGGCAAGAGAGAGAGAGAGAGAGAG 599
 QY 203 *-ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgV 223
 Db 600 -GACCTACATGTGTGGCCACCAACAGCGGAGGACATGGGAGAGCGCCGAGCCCGGG 658
 QY 223 alSerIleGlnGluProGlnAspTyrThrGluProValGluLeuLeuAlaValArgIleG 243
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 Db 719 AGCTGGAAATGTGACACTGTGAACCGGATCTGTGAGAGGGGCCCCAAGCTAGACCGG 778
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 DT 08-FEB-2001 (first entry)
 XX
 DE Human PRO860 (UNQ421) nucleotide sequence SEQ ID NO:210.
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 KW Human; secreted protein; transmembrane protein; PRO; EST; cytosstatic;
 KW expressed sequence tag; detection; cancer; ss.
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 OS Homo sapiens.
 XX
 PN WO200053756-A2.
 XX
 PD 14-SEP-2000.
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 PF 18-FEB-2000; 2000WO-US004341.
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 PR 08-MAR-1999; 99WO-US005028.
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 PR 29-OCT-1999; 99US-0162506P.
 PR 30-NOV-1999; 99WO-US028313.
 PR 02-DEC-1999; 99WO-US028551.
 PR 02-DEC-1999; 99WO-US028565.
 PR 16-DEC-1999; 99WO-US030095.
 PR 30-DEC-1999; 99WO-US031243.

PR 30-DEC-1999; 99WO-US031274.
 PR 03-JAN-2000; 2000WO-US000217.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 06-JAN-2000; 2000WO-US000376.
 XX (GETH) GENENTECH INC.
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 PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Filvaroff E, Fong S, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
 PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
 PI Stewart JA, Tumas D, Williams PM, Wood WI;
 XX WPI; 2000-611443/58.
 DR P-PSDB; AAB44272.
 XX
 PT Novel PRO polypeptides and polynucleotides used in detection methods, to
 PT target bioactive molecules to specific cells, and to modulate cellular
 PT activities.
 XX
 PS Claim 2; Fig 76; 636pp; English.
 XX
 CC AAC78458 to AAC78599 represent polynucleotide and EST (expressed sequence
 CC tag) sequences which encode secreted or transmembrane PRO polypeptides.
 CC The PRO polynucleotides and polypeptides have cytosolic activity. The
 CC polynucleotides and polypeptides can be used for detecting the presence
 CC of PRO polypeptides in samples, for linking bioactive molecules to cells
 CC and for modulating biological activities of cells, using the polypeptides
 CC for specific targeting. The polypeptide targeting can be used to kill the
 CC target cells, e.g. for the treatment of cancers. The polypeptide pairs
 CC provide specific targeting of bioactive molecules to cells. AAC78600 to
 CC AAC78987 represent PCR primers and probes used in the isolation of the
 CC PRO polynucleotide sequences
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 SQ Sequence 3716 BP; 757 A; 1225 C; 1032 G; 702 T; 0 U; 0 Other;
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Alignment Scores:
 Pred. No.: 1.39e-124 Length: 3716
 Score: 148.00 Matches: 261
 Percent Similarity: 98.49% Conservative: 0
 Best Local Similarity: 98.49% Mismatches: 2
 Query Match: 48.84% Indels: 4
 DB: 3 Gaps: 0

US-10-047-021-86 (1-303) x AAC78502 (1-3716)

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 DB 61 GGAGGCATGGCTCAGGACTCCCGCCCGCAGATCCTAGTCCACCCCGCAGGACCGAGCTTTC 120
 QY 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProProThrIle 63
 DB 121 CAGGCGCTGGCCCTGCGAGGATGAGTGCCA-AGCTCTAGGCGCAGCAGCTCCACCAT 179
 QY 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisHisLeuLe 83
 DB 180 CCGCTGGTGTGTAATGGGAGCCCTTGGATGCTGCTGCTGCTGCTGCTGCTGCTGCT 239
 QY 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyGly 103
 DB 240 GCCTGATGGGACCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 299
 QY 103 nAlaLeuSerThrAspLeuGlyValTyThrCysGluAlaSerAsnArgLeuGlyThrAl 123
 DB 300 GGCCCTGTCCACAGACCTGGGTGTCTACATGTGAGGCGCAGCAACCGGCTGGCAGCGC 359
 QY 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGlnAspPheGlnIleGlnPr 143
 DB 360 AGTCAGCAGAGCGGCTCGGCTGTCTGTGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTG 419

QY 143 oArgAspMetValAlaValValGlyGlyGlnPheThrLeuGlyCysGlyProProTrpGly 163
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 QY 193 yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGlyLysSerAspGly** 203
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 DB 779 CGGTGTGGCTC 789

RESULT 7
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 DT 09-SEP-2003 (first entry)
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 KW cell death; growth induction cascade; PRO; virucide; gene therapy;
 KW viral infection; gene; ss.
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 OS Homo sapiens.
 XX
 PN US2003050239-A1.
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 PD 13-MAR-2003.
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 PF 15-OCT-2001; 2001US-00978191.
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PR 05-JUN-2001; 2001US-00874503.
PR 14-JUN-2001; 2001US-00882636.
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XX
PA (GETH ) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Baton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

Alignment Scores:
Pred. No.: 1.39e-124 Length: 3716
Score: 148.00 Matches: 261
Percent Similarity: 98.49% Conservative: 0
Best Local Similarity: 98.49% Mismatches: 2
Query Match: 48.84% Indels: 4
DB: 7 Gaps: 0

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Db 1 GGAGGACAGCCTCTGGGGGCGAGGGTTCCCTGCTGCTGCTGCTCATCATG 60
Qy 24 GlyGlyMetAlaGlnAspSerProGlnIleuValHisProGlnAspGlnLeuPhe 43
Db 61 GGAGGCATGGCTCAGGACTCCCGCCCGACATCTAGTCCACCCCGAGGACGCTGTT 120
Qy 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrIle 63
Db 121 CAGGCCCTGGCCCTGCAGGATGAGTGCCA-AGCCTCAGGCCACCCACCTCCACCAT 179
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Db 240 GCCTGATGGAGACCTTCTGTGCTACAGCCCTCTGCCGGGACATGCCACCATGGCCA 299
Qy 103 nAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeuGlyThrAl 123
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Qy 263 laValTrpLeu 266
Db 779 CGGTGTGGCTC 789
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XX
AC ACA63637;
XX
DT 16-JUN-2003 (first entry)
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DE Novel human secreted and transmembrane protein PRO860 cDNA.
XX
KW Human; secreted and transmembrane protein; PRO; antiinflammatory;
KW antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;
KW antidiabetic; gene therapy; inflammatory disease; organ failure;
KW atherosclerosis; cardiac injury; infertility; birth defect;
KW premature aging; AIDS; cancer; diabetic complication; chromosome mapping;
KW gene mapping; pharmaceutical; diagnostic; biosensor; bioreactor;
KW tissue typing; gene; ss.
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OS Homo sapiens.
XX
PN US2002192706-A1.
PD 19-DEC-2002.
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 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000WO-US034956.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 22-MAR-2001; 2001WO-US009552.
 PR 25-MAY-2001; 2001WO-US017892.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUN-2001; 2001WO-US021735.
 XX (GETH) GENENTECH INC.
 PA
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Filyaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NP, Roy MA, Shelton DL;
 PI Stewart IA, Tumas D, Williams PM, Wood WI;
 XX WPI; 2003-328860/31.
 DR P-PSDB; ABU72224.
 XX
 XX New secreted and transmembrane nucleic acids and polypeptides, designated
 PT as PRO, useful for treating inflammation, organ failure, atherosclerosis,
 PT cardiac injury, infertility, birth defects, premature aging, AIDS, or
 PT cancer.
 XX
 XX Claim 2; Fig 76; 453pp; English.
 PS
 XX The invention describes an isolated nucleic acid (I) comprising, or which
 CC is at least 80 % sequence identity to, or the full-length coding sequence
 CC of, any of 118 300-2100 nucleotide sequences, which encodes its
 CC corresponding PRO polypeptide selected from 118 100-700 amino acid
 CC sequences, all given in the specification. The nucleic acids and
 CC polypeptides are useful for treating inflammatory diseases, organ
 CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
 CC

CC premature aging, AIDS, cancer, or diabetic complications. The nucleic
 CC acids are useful as hybridisation probes, in chromosome and gene mapping,
 CC and in generating antisense RNA or DNA. The polypeptides are useful as
 CC pharmaceuticals, diagnostics, biosensors or bioreactors. Both are useful
 CC in tissue typing. This sequence encodes a novel human secreted and
 CC transmembrane PRO polypeptide
 XX
 SQ Sequence 3716 BP; 757 A; 1225 C; 1032 G; 702 T; 0 U; 0 Other;
 Alignment Scores:
 Pred. No.: 1-398-124 Length: 3716
 Score: 148.00 Matches: 261
 Percent Similarity: 98.43% Conservative: 0
 Best Local Similarity: 98.43% Mismatches: 2
 Query Match: 48.84% Indels: 4
 DB: 7 Gaps: 0
 US-10-047-021-86 (1-303) x ACA63637 (1-3716)
 QY 4 GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuMet 23
 DB 1 GGAGGAGACAGCCTCTGGGGGCGAGGGTTCCCTGCTGCTGCTGCTGCTCATG 60
 QY 24 GlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAspGlnPhe 43
 DB 61 GGAGGATGGCTCAGGATCTCCGGCCCGAGATCTAGTCCACCCCGAGGACGCTTTC 120
 QY 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrIle 63
 DB 121 CAGGGCCCTGGCCCTGCCAGGATGAGTGCCTA-AGCCTCAGGCCAGCCACCTCCACCAT 179
 QY 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisHisLeuLe 83
 DB 180 CCGCTGGTTGCTGAATGGCGAGCCCTGAGCATGGTGTCCCGCCAGACCCACACCTCCT 239
 QY 83 uProAspGlyThrLeuLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyG 103
 DB 240 GCCTGATGGAGCCCTTCTGCTGCTACAGCCCTGCGCGGGAGATGCCACGATGCCA 299
 QY 103 hAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeuGlyThrAl 123
 DB 300 GGCCCTGTCCACAGACCTGGGTGTCACATGTAGGCCAGCAACCGGCTTGGACGGC 359
 QY 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnIleGlnPr 143
 DB 360 AGTCAGCAGAGCGCTCGGCTGTCTGTGGCTGTCTCGGGAGGATTTCCAGATCCAGCC 419
 QY 143 oArgAspMetValAlaValValGlyGlnPheThrLeuGluCysGlyProProTrpG 163
 DB 420 TCGGACATGGTGGCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 479
 QY 163 yHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeuGlnProG 183
 DB 480 CCACCCAGAGCCACAGTCTCATGGTGAAGAAGATGGGAAACCCCTGGCCCTCCAGCCGG 539
 QY 183 yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu** 203
 DB 540 AAGGCACACAGTGTCCGGGGGTCCTCTGCTGATGGCAGAGCAGAGAGAGTGCAGAGG 599
 QY 203 *ThrTyrMetCysValAlaThrAsnSerAlaGlyHisAtgGluSerArgAlaAlaArgV 223
 DB 600 -GACCTACATGTGTGGCCACCAACAGCAGGACATAGGGAGAGCCCGCCAGCCCGGG 658
 QY 223 alSerIleGlnGluProGlnAspTyrThrGluProValGluLeuLeuAlaValArgIleG 243
 DB 659 TTTCCATCCAGAGGCCCGCAGGACTACACGAGCCTGTGGAGCTTCTGGCTGTGGAATTC 718
 QY 243 lnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA 263
 DB 719 AGCTGGAAATGTGACACTGTCTGAACCGGATCTCTGACAGGGGCCCGCAAGCTTAGACGG 778
 QY 263 laValTrpLeu 266
 DB |||||

Db 779 CGGTGGCTC 789

RESULT 9

ACAV1801

ID ACA71801 standard; cDNA; 3716 BP.

XX ACA71801;

XX 11-AUG-2003 (first entry)

XX Human secreted and transmembrane polypeptide PRO860 cDNA.

XX Human; ss; gene; thrombolytic agent; interferon; interleukin; cytokine;

KW erythropoietin; colony stimulating factor; cancer; colorectal carcinoma;

KW apotomys related condition; AIDS; amyotrophic lateral sclerosis;

KW inflammatory disease; asthma; atherosclerosis; neurodegenerative disease;

KW gastrointestinal disorder; Alzheimer's disease; Parkinson's disease;

KW hypertension; myocardial ischaemia; kidney disease; carcinogenesis;

KW glomerulonephritis; lung disease; pulmonary hypertension; preclampsia;

KW bronchial asthma; gastric ulcer; renal failure; cardiovascular disease;

KW inflammatory bowel disease; reproductive disorder; premature labour.

OS Homo sapiens.

XX US2002177553-A1.

XX 28-NOV-2002.

XX 15-OCT-2001; 2001US-00978192.

XX 17-OCT-1997; 97US-0062250P.

PR 03-NOV-1997; 97US-0064249P.

PR 13-NOV-1997; 97US-0065311P.

PR 21-NOV-1997; 97US-0066364P.

PR 10-MAR-1998; 98US-0077450P.

PR 11-MAR-1998; 98US-0077632P.

PR 11-MAR-1998; 98US-0077641P.

PR 11-MAR-1998; 98US-0077649P.

PR 12-MAR-1998; 98US-0077791P.

PR 13-MAR-1998; 98US-0078004P.

PR 17-MAR-1998; 98US-00040320.

PR 20-MAR-1998; 98US-0078866P.

PR 20-MAR-1998; 98US-0078910P.

PR 20-MAR-1998; 98US-0078936P.

PR 20-MAR-1998; 98US-0078939P.

PR 25-MAR-1998; 98US-0079294P.

PR 26-MAR-1998; 98US-0079656P.

PR 27-MAR-1998; 98US-0079663P.

PR 27-MAR-1998; 98US-0079664P.

PR 27-MAR-1998; 98US-0079689P.

PR 27-MAR-1998; 98US-0079728P.

PR 27-MAR-1998; 98US-0079786P.

PR 30-MAR-1998; 98US-0079920P.

PR 30-MAR-1998; 98US-0079923P.

PR 26-JUN-1998; 98US-00105413.

PR 07-OCT-1998; 98US-00168978.

PR 07-OCT-1998; 98US-00211141.

PR 02-NOV-1998; 98US-00184216.

PR 06-NOV-1998; 98US-00187368.

PR 20-NOV-1998; 98US-00204855.

PR 07-DEC-1998; 98US-00202054.

PR 22-DEC-1998; 98US-00218517.

PR 05-JAN-1999; 98US-000010106.

PR 05-MAR-1999; 98US-00254465.

PR 08-MAR-1999; 98US-00005028.

PR 10-MAR-1999; 98US-00265686.

PR 10-MAR-1999; 98US-00005190.

PR 12-MAR-1999; 98US-00267213.

PR 12-APR-1999; 98US-00284291.

PR 14-MAY-1999; 98US-00311832.

PR 14-MAY-1999; 98US-00311832.

PR 02-JUN-1999; 98US-00122452.

PR 25-AUG-1999; 98US-00380137.

PR 25-AUG-1999; 98US-00380138.

PR 25-AUG-1999; 98US-00380142.

PR 30-NOV-1999; 98US-00283113.

PR 02-DEC-1999; 98US-0028551.

PR 02-DEC-1999; 98US-0028551.

PR 16-DEC-1999; 98US-0028565.

PR 30-DEC-1999; 98US-0030095.

PR 30-DEC-1999; 98US-0031243.

PR 30-DEC-1999; 98US-0031274.

PR 05-JAN-2000; 2000US-0000219.

PR 06-JAN-2000; 2000US-0000277.

PR 06-JAN-2000; 2000US-0000376.

PR 11-FEB-2000; 2000US-0000365.

PR 18-FEB-2000; 2000US-00004341.

PR 24-FEB-2000; 2000US-00005004.

PR 02-MAR-2000; 2000US-00005841.

PR 10-MAR-2000; 2000US-00006319.

PR 21-MAR-2000; 2000US-00007532.

PR 21-MAR-2000; 2000US-00008439.

PR 17-MAY-2000; 2000US-00013705.

PR 22-MAY-2000; 2000US-00014042.

PR 30-MAY-2000; 2000US-00014941.

PR 02-JUN-2000; 2000US-00015264.

PR 28-JUL-2000; 2000US-00020710.

PR 24-AUG-2000; 2000US-00023328.

PR 08-NOV-2000; 2000US-00029238.

PR 27-NOV-2000; 2000US-00023749.

PR 01-DEC-2000; 2000US-0002678.

PR 20-DEC-2000; 2000US-00047259.

PR 20-DEC-2000; 2000US-00049556.

PR 28-FEB-2001; 2001US-00006520.

PR 22-MAR-2001; 2001US-00016744.

PR 22-MAR-2001; 2001US-00016920.

PR 22-MAR-2001; 2001US-00009552.

PR 10-MAY-2001; 2001US-000854208.

PR 10-MAY-2001; 2001US-000854280.

PR 25-MAY-2001; 2001US-00017092.

PR 01-JUN-2001; 2001US-00072035.

PR 01-JUN-2001; 2001US-00017800.

PR 05-JUN-2001; 2001US-00074503.

PR 14-JUN-2001; 2001US-00082636.

PR 19-JUN-2001; 2001US-00086342.

PR 20-JUN-2001; 2001US-00019692.

PR 29-JUN-2001; 2001US-00021066.

PR 09-JUL-2001; 2001US-00021735.

PR 30-JUL-2001; 2001US-00018585.

XX (GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;

PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;

PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;

PI Stewart TA, Tumas D, Williams PW, Wood WI;

XX WPI; 2003-328499/31.

DR P-PSDB; ABU84904.

XX New isolated PRO polypeptides e.g. PRO213, PRO274 and PRO300, for use as

PT pharmaceuticals, diagnostics, biosensors and bioreactors, for identifying

PT modulators of receptor-ligand interactions.

XX Claim 2; SEQ ID NO 210; 55pp; English.

XX The invention relates to an isolated secreted and transmembrane

CC polypeptide, designated as PRO polypeptide. The PRO polypeptide is useful

CC in PRO polypeptide detection methods. The PRO polypeptide is useful for

CC linking a bioactive molecule to a cell. The PRO polypeptide or an

CC antibody against it is useful for modulating a biological activity of a

CC cell. The PRO polypeptide is useful in industrial applications including

CC pharmaceuticals, diagnostics, biosensors and bioreactors. The PRO

CC polypeptide is also useful as a thrombolytic agent, interferon,

CC interleukin, erythropoietin, colony stimulating factor and other

CC cytokines. The PRO polypeptide is useful for treating disease such as

CC cancer e.g. colorectal carcinoma; apoptosis related conditions e.g. AIDS,
CC amyotrophic lateral sclerosis; inflammatory disease e.g. asthma,
CC atherosclerosis; neurodegenerative disease e.g. Alzheimer's disease,
CC Parkinson's disease; cardiovascular disease e.g. hypertension and
CC myocardial ischaemia; kidney disease e.g. renal failure and
CC glomerulonephritis; lung disease e.g. pulmonary hypertension, bronchial
CC asthma; gastrointestinal disorders e.g. gastric ulcer and inflammatory
CC bowel disease; reproductive disorders e.g. premature labour and
CC preclampsia; carcinogenesis. The present sequence represents a cDNA
CC encoding a PRO polypeptide of the invention. Note: The sequence data for
CC this patent did not form part of the printed specification but was
CC obtained in electronic format directly from USPTO at
CC seqdata.uspto.gov/sequence.html?docID=20020177553
XX
SQ Sequence 3716 BP; 757 A; 1225 C; 1032 G; 702 T; 0 U; 0 Other;

Alignment Scores:
Pred. No.: 1,398-124 Length: 3716
Score: 148.00 Matches: 261
Percent Similarity: 98.49% Conservative: 0
Best Local Similarity: 98.49% Mismatches: 2
Query Match: 48.84% Indels: 4
DB: 7 Gaps: 0

US-10-047-021-86 (1-303) x ACA71801 (1-3716)

QY 4 GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuMet 23
DB 1 GGAGGAGACAGCTCTGGGGGGGAGGGGTTCCCTGCTCTGCTCTCTCATCATG 60
QY 24 GlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAspGlnLeuPhe 43
DB 61 GGAGCATGGCTCAGGACTCCCGCCCGCAGATCTAGTCCACCCAGGACCACTGTTTC 120
QY 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrIle 63
DB 121 CAGGGCCCTGGCCCTGCAGGATGAGTGCCA-AGCCTCAGGCGAGCCACTCCACCAT 179
QY 63 eArgTrpLeuLeuGlnGlnProLeuSerMetValProProAspProHisIleLeu 83
DB 180 CCGTGTGTGTGATGGGAGCCCTGAGCATGGTCCCGCCAGACCAACCACTCTCT 239
QY 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyG 103
DB 240 GCCTGATGGGACCTTCTGTGCTGTACAGCCCTGCGGGGAGCATGCCACATGGCCA 239
QY 103 nAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeuGlyThrAl 123
DB 300 GGCCCTGTCCACAGACCTGGGTGTCTACATGTGAGCCAGCAACCGGCTTGGCAGCG 359
QY 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnIleGlnPr 143
DB 360 AGTCAGCAGAGCCCTCGCTGTCTGTGGCTGTCTCCGGGAGATTCAGATCCAGCC 419
QY 143 oArgAspMetValAlaValGlyGlnGlnPheThrLeuGluCysGlyProProTrpG 163
DB 420 TCGGGACATGTGGCTGTGGTGGGTGAGCAGTTTACTCTGGAATGTGGGCGCCCTGGGG 479
QY 163 yHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeuGlnProG 193
DB 480 CCACCCAGAGCCCATGTCATGTGTGAAGATGGGAAACCCCTGGCCCTCCAGCCCGG 539
QY 183 yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu** 203
DB 540 AAGGCACACAGTGTCCGGGGGTCCTGCTGATGGCAAGAGCAGAGAGATGCACGAGG 599
QY 203 *-ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgV 223
DB 600 -GACCTACATGTGTGTGCCCAACAGCAGCATAGGAGAGCGCGCAGCCCGGG 658
QY 223 alSerIleGlnProGlnAspTyrThrGluProValGluLeuLeuAlaValArgIleG 243
DB 659 TTTTCATCCAGAGCCCAAGACTACAGGAGGCTGTGGAGCTTCTGGCTGTGGATTC 718

QY 243 lnLeuGluAsnValThrLeuLeuAanProAspProAlaGluGlyProLysProArgP:OA 263
DB 719 AGCTGGAAATGTGACACTGCTGAACCCGGATCTCTGCAGAGGGCCCCAAGCTAGACCGG 778
QY 263 laValTrpLeu 266
DB 779 CGGTGTGGCTC 789
RESULT 10
ABX92441
ID ABX92441 standard; cDNA; 3716 BP.
XX
AC ABX92441;
XX
DT 08-MAY-2003 (first entry)
XX
DE cDNA encoding human PRO860 polypeptide.
XX
KW Human; PRO polypeptide; secreted and transmembrane protein;
KW immune disorder; diabetes; hyper-insulinaemia; hypo-insulinaemia;
KW cardiac insufficiency; nervous system disorder; kidney disorder;
KW bone disorder; cartilage disorder; arthritis; tumour; wound healing;
KW genetic disorder; cytostatic; antidiabetic; antiinflammatory;
KW antiarthritic; anti-tumour; vulnerary; antianaemic; dermatological;
KW cardiant; gene; ss.
XX
OS Homo sapiens.
XX
PN US2002169284-A1.
XX
PD 14-NOV-2002.
XX
PF 16-OCT-2001; 2001US-00978697.

XX 26-MAY-1981; 81US-00267213.
PR 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077791P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079294P.
PR 26-MAR-1998; 98US-0079565P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079789P.
PR 27-MAR-1998; 98US-0079789P.
PR 27-MAR-1998; 98US-0079789P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 26-JUN-1998; 98US-00105413.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98WO-US021141.
PR 02-NOV-1998; 98US-00184216.
PR 06-NOV-1998; 98US-00187368.
PR 20-NOV-1998; 98WO-US024855.
PR 07-DEC-1998; 98US-00202054.
PR 22-DEC-1998; 98US-00218517.
PR 05-JAN-1999; 99WO-US000106.
PR 05-MAR-1999; 99US-00254465.
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99US-00265686.
PR 10-MAR-1999; 99WO-US005190.

PR	12-APR-1999;	99US-00284291.	CC	biological activities of cells expressing PRO polypeptides, and for
PR	14-MAY-1999;	99US-00311832.	CC	identifying agonists or antagonists. The bioactive molecule may be a
PR	14-MAY-1999;	99WO-US010733.	CC	toxin, radiolabel or antibody, and causes apoptosis or death of the cell.
PR	02-JUN-1999;	99WO-US011252.	CC	The PRO polypeptides are useful for treating immune disorders, diabetes
PR	25-AUG-1999;	99US-00380137.	CC	or hyper- or hypo-insulinaemia, cardiac insufficiency, nervous system
PR	25-AUG-1999;	99US-00380138.	CC	disorders, kidney disorders, bone and cartilage disorders or arthritis,
PR	25-AUG-1999;	99US-00380142.	CC	tumours, and wound healing. The polynucleotide sequences encoding PRO
PR	30-NOV-1999;	99WO-US028313.	CC	polypeptides are useful as hybridisation probes, in chromosome and gene
PR	02-DEC-1999;	99WO-US028551.	CC	mapping, in the generation of antisense RNA and DNA, in the preparation
PR	02-DEC-1999;	99WO-US028565.	CC	of PRO polypeptides for generating transgenic animals or knockout
PR	16-DEC-1999;	99WO-US030095.	CC	animals, for the genetic analysis of individuals with genetic disorders,
PR	30-DEC-1999;	99WO-US031243.	CC	and in gene therapy. The present sequence encodes a human PRO polypeptide
PR	30-DEC-1999;	99WO-US031274.	CC	of the invention. Note: The sequence data for this patent was obtained in
PR	05-JAN-2000;	2000WO-US000219.	CC	electronic format directly from the USPTO web site at
PR	05-JAN-2000;	2000WO-US000277.	XX	segdata.uspto.gov/psipdsIDentry.html
PR	05-JAN-2000;	2000WO-US000376.	XX	
PR	11-FEB-2000;	2000WO-US000356.	SQ	Sequence 3716 BP; 757 A; 1225 C; 1032 G; 702 T; 0 U; 0 Other;
PR	18-FEB-2000;	2000WO-US000434.		
PR	24-FEB-2000;	2000WO-US000504.		
PR	02-MAR-2000;	2000WO-US000584.		
PR	10-MAR-2000;	2000WO-US000631.		
PR	21-MAR-2000;	2000WO-US007532.		
PR	30-MAR-2000;	2000WO-US008439.		
PR	17-MAY-2000;	2000WO-US013705.		
PR	22-MAY-2000;	2000WO-US014042.		
PR	30-MAY-2000;	2000WO-US014941.		
PR	02-JUN-2000;	2000WO-US015264.		
PR	28-JUL-2000;	2000WO-US020710.		
PR	24-AUG-2000;	2000WO-US023328.		
PR	08-NOV-2000;	2000US-00709238.		
PR	21-NOV-2000;	2000US-00723749.		
PR	01-DEC-2000;	2000WO-US032678.		
PR	20-DEC-2000;	2000US-00747259.		
PR	20-DEC-2000;	2000WO-US034956.		
PR	28-FEB-2001;	2001WO-US0006520.		
PR	22-MAR-2001;	2001US-00816744.		
PR	22-MAR-2001;	2001US-00816920.		
PR	10-MAY-2001;	2001WO-US009552.		
PR	22-MAR-2001;	2001WO-US00854208.		
PR	10-MAY-2001;	2001WO-US017092.		
PR	25-MAY-2001;	2001WO-US017092.		
PR	01-JUN-2001;	2001US-00872035.		
PR	01-JUN-2001;	2001WO-US017800.		
PR	05-JUN-2001;	2001US-00874503.		
PR	14-JUN-2001;	2001US-00882636.		
PR	19-JUN-2001;	2001US-00886342.		
PR	20-JUN-2001;	2001WO-US019692.		
PR	29-JUN-2001;	2001WO-US021066.		
PR	09-JUL-2001;	2001WO-US021735.		
PR	30-JUL-2001;	2001US-00918585.		
XX				
PA	(GETH) GENENTECH INC.			
XX	Ashkenazi A, Baker KP, Botstein D, Desnoyers L, Eaton D;			
PI	Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;			
PI	Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;			
PI	Kijavini IU, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;			
PI	Stewart TA, Tamas D, Williams PM, Wood WI;			
XX	WPI; 2003-288163/28.			
DR	P-PSDB; ABU61102.			
XX				
XX	Novel secreted and transmembrane polypeptides and polynucleotides			
PT	encoding them useful for treating cancer, kidney diseases, bone,			
PT	cartilage disorders and immune deficiencies.			
XX				
PS	Claim 2; Fig 76; 459pp; English.			
XX				
CC	The present invention relates to the isolation of novel human PRO			
CC	polypeptides, and the polynucleotide sequences encoding them. The PRO			
CC	polypeptides are secreted and transmembrane proteins. The PRO			
CC	polypeptides are useful for detecting other PRO polypeptides, for linking			
CC	bioactive molecules to cells expressing PRO polypeptides, for modulating			

CC 99US-00284291.

CC 99US-00311832.

CC 99WO-US010733.

CC 99WO-US011252.

CC 99US-00380137.

CC 99US-00380138.

CC 99US-00380142.

CC 99WO-US028313.

CC 99WO-US028551.

CC 99WO-US028565.

CC 99WO-US030095.

CC 99WO-US031243.

CC 99WO-US031274.

CC 2000WO-US000219.

CC 2000WO-US000277.

CC 2000WO-US000376.

CC 2000WO-US000356.

CC 2000WO-US000434.

CC 2000WO-US000504.

CC 2000WO-US000584.

CC 2000WO-US000631.

CC 2000WO-US007532.

CC 2000WO-US008439.

CC 2000WO-US013705.

CC 2000WO-US014042.

CC 2000WO-US014941.

CC 2000WO-US015264.

CC 2000WO-US020710.

CC 2000WO-US023328.

CC 2000US-00709238.

CC 2000US-00723749.

CC 2000WO-US032678.

CC 2000US-00747259.

CC 2000WO-US034956.

CC 2001WO-US0006520.

CC 2001US-00816744.

CC 2001US-00816920.

CC 2001WO-US009552.

CC 2001WO-US00854208.

CC 2001WO-US017092.

CC 2001WO-US017092.

CC 2001US-00872035.

CC 2001WO-US017800.

CC 2001US-00874503.

CC 2001US-00882636.

CC 2001US-00886342.

CC 2001WO-US019692.

CC 2001WO-US021066.

CC 2001WO-US021735.

CC 2001US-00918585.

XX

US-10-047-021-86 (1-303) x ABX92441 (1-3716)

QY 4 GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuMet 23

DB 1 GGAGGAGACAGCTCTCGGGGGGCGAGGGTTCCCTGCTGCTGCTGCTGCTCATCATG 60

QY 24 GlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAspGlnLeuPhe 43

DB 61 GGAGGCATGGTTCAGGACTCCCGCCCGAGATCCCTAGTCCACCCCGAGGACAGCTGTC 120

QY 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrIle 63

DB 121 CAGGGCCCTGGCCCTCCAGATGAGCTGCCA-AGCCTCAGGCAGCCACTCCACCAT 179

QY 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisHisLeuLe 83

DB 180 CCGCTGGTTGCTGAATGGGCGAGCCCTGAGCATGTGTCCTCCAGACCCAGACCCACTCT 239

QY 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyGln 103

DB 240 GCCTGATGGAGCCCTTCCTGCTGCTACAGCCCTCCCGGGGACATGCCAGATGGCA 299

QY 103 nAlaLeuSerThrAspLeuGlyValTyThrCysGluAlaSerAsnArgLeuGlyThrAl 123

DB 300 GGCCCTGTCCACAGACCTGGGTGTCTACACATGTGAGCCAGCAACCGCTTGGCAGCGC 359

QY 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnIleGlnPr 143

DB 360 AGTCAGCAGAGCGCTCGGCTGCTCTGTGCTGTCTCCGGGAGGATTTCCAGATCCAGCC 419

QY 143 oArgAspMetValAlaValValGlyGlnPheThrLeuGluCysGlyProProTrpGln 163

DB 420 TCGGACATGTTGGTGTGTTGGTGGGTGAGCAGTTTACTCTGGAATGTGGCCCTCGGG 479

QY 163 yHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeuGlnProGln 183

DB 480 CCACCCAGAGCCACAGTCTCATGTGTGGAAGATGGAAACCCCTGGCCCTCCAGCCCGG 539

QY 183 yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu** 203

DB 540 AAGGCACACAGTGTCCGGGGGGTCTCTGCTGATGTCAGACAGCAGAGAGATGACGAGG 599

QY 203 *-ThrTyMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgV 223

DB 600 -GACCTACATGTGTGGCCACCAACAGCGCAGGACATAGGGAGAGCCCGCAGCCCGG 658

QY 223 aSerIleGlnGluProGlnAspTyThrGluProValGluLeuLeuAlaValArgIleG 243

Db 659 TTTCCATCCAGAGCCCGACGAGCTACACGAGCCTGTGGAGCTTCTGGCTGTGCGAATC 718
Qy 243 InLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA 263
Db 719 AGCTGGAAATGTGACACTGCTGAACCGGATCCTGCAGAGGGCCCAAGCCTAGACCGG 778
Qy 263 laValTrpLeu 266
Db 779 CGGTGTGGCTC 789
RESULT 11
ID ACA66182 standard; cDNA; 3716 BP.
XX AC ACA66182;
XX 24-JUN-2003 (first entry)
DE Human cDNA encoding secreted/transmembrane protein PRO860.
KW Human; ss; Gene; secreted protein; transmembrane protein; PRO;
KW malignancy; cancer; ovarian cancer; colorectal cancer; sarcoma;
KW leukaemia; lymphoma; inflammatory disease; necrosis; atherosclerosis;
KW infertility; premature aging; psoriasis; inflammatory disease;
KW renal disease; arthritis; hepatitis; immune-mediated alopecia; stroke; encephalitis;
KW hepatitis; multiple sclerosis; gene therapy.
XX OS Homo sapiens.
XX US2003004102-A1.
PN 02-JAN-2003.
XX 15-OCT-2001; 2001US-00978189.
PR 17-OCT-1997; 97US-0062250P.
PR 03-NOV-1997; 97US-0064249P.
PR 13-NOV-1997; 97US-0065311P.
PR 21-NOV-1997; 97US-0066364P.
PR 10-MAR-1998; 98US-0077450P.
PR 11-MAR-1998; 98US-0077632P.
PR 11-MAR-1998; 98US-0077641P.
PR 11-MAR-1998; 98US-0077649P.
PR 12-MAR-1998; 98US-0077731P.
PR 13-MAR-1998; 98US-0078004P.
PR 17-MAR-1998; 98US-00040220.
PR 20-MAR-1998; 98US-0078886P.
PR 20-MAR-1998; 98US-0078910P.
PR 20-MAR-1998; 98US-0078936P.
PR 20-MAR-1998; 98US-0078939P.
PR 25-MAR-1998; 98US-0079234P.
PR 26-MAR-1998; 98US-00795656P.
PR 27-MAR-1998; 98US-0079663P.
PR 27-MAR-1998; 98US-0079664P.
PR 27-MAR-1998; 98US-0079689P.
PR 27-MAR-1998; 98US-0079728P.
PR 27-MAR-1998; 98US-0079786P.
PR 30-MAR-1998; 98US-0079920P.
PR 30-MAR-1998; 98US-0079923P.
PR 26-JUN-1998; 98US-00105413.
PR 07-OCT-1998; 98US-00168978.
PR 07-OCT-1998; 98US-00211141.
PR 02-NOV-1998; 98US-00184216.
PR 06-NOV-1998; 98US-00187368.
PR 20-NOV-1998; 98US-00248555.
PR 07-DEC-1998; 98US-00202054.
PR 22-DEC-1998; 98US-00218517.
PR 05-JAN-1999; 99US-00000106.
PR 05-JAN-1999; 99US-00254465.
PR 08-MAR-1999; 99US-0005028.
PR 10-MAR-1999; 99US-00265686.
PR 10-MAR-1999; 99US-0005190.
PR 12-MAR-1999; 99US-00267213.
PR 12-APR-1999; 99US-00284291.
PR 14-MAY-1999; 99US-00311832.
PR 14-MAY-1999; 99US-00311832.
PR 02-JUN-1999; 99US-00312252.
PR 25-AUG-1999; 99US-00380137.
PR 25-AUG-1999; 99US-00380138.
PR 25-AUG-1999; 99US-00380142.
PR 30-NOV-1999; 99US-0028313.
PR 02-DEC-1999; 99US-0028551.
PR 02-DEC-1999; 99US-0028551.
PR 02-DEC-1999; 99US-0028551.
PR 16-DEC-1999; 99US-0030095.
PR 30-DEC-1999; 99US-0031243.
PR 30-DEC-1999; 99US-0031274.
PR 05-JAN-2000; 2000US-0000219.
PR 06-JAN-2000; 2000US-0000277.
PR 06-JAN-2000; 2000US-0000376.
PR 11-FEB-2000; 2000US-0003585.
PR 18-FEB-2000; 2000US-0004341.
PR 24-FEB-2000; 2000US-0005004.
PR 01-MAR-2000; 2000US-0005601.
PR 02-MAR-2000; 2000US-0005841.
PR 10-MAR-2000; 2000US-0006319.
PR 21-MAR-2000; 2000US-0007532.
PR 30-MAR-2000; 2000US-0008439.
PR 17-MAY-2000; 2000US-0013705.
PR 22-MAY-2000; 2000US-0014042.
PR 30-MAY-2000; 2000US-0014941.
PR 02-JUN-2000; 2000US-0015264.
PR 28-JUL-2000; 2000US-0020710.
PR 24-AUG-2000; 2000US-0023328.
PR 08-NOV-2000; 2000US-00709238.
PR 10-NOV-2000; 2000US-0030873.
PR 27-NOV-2000; 2000US-00723749.
PR 01-DEC-2000; 2000US-0032678.
PR 20-DEC-2000; 2000US-00747259.
PR 28-FEB-2001; 2000US-0034956.
PR 22-MAR-2001; 2000US-00816744.
PR 22-MAR-2001; 2000US-00816920.
PR 22-MAR-2001; 2000US-0090552.
PR 10-MAY-2001; 2000US-00854208.
PR 10-MAY-2001; 2000US-00854280.
PR 25-MAY-2001; 2000US-00854280.
PR 01-JUN-2001; 2000US-00872035.
PR 01-JUN-2001; 2000US-00872035.
PR 05-JUN-2001; 2000US-00874503.
PR 14-JUN-2001; 2000US-00882636.
PR 19-JUN-2001; 2000US-00886342.
PR 20-JUN-2001; 2000US-0019692.
PR 29-JUN-2001; 2000US-0021066.
PR 09-JUL-2001; 2000US-0021735.
PR 30-JUL-2001; 2000US-00918585.
XX (GETH) GENENTECH INC.
XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
XX Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, Shilton DL;
XX Kljavin IU, Kuo SS, Napter MA, Pan J, Paoni NF, Roy MA, Shelton DL;
XX Stewart TA, Tumas D, Williams PM, Wood WI;
XX WPI; 2003-341189/32.
XX P-PSDB; AB080371.
XX New genes and secreted and transmembrane polypeptides (e.g. PRO337 or
XX PRO1559), useful for treating or diagnosing e.g. cancers,
XX atherosclerosis, infertility, stroke, encephalitis, hepatitis or multiple
XX sclerosis in mammals.
XX Claim 2; Fig 76; 460pp; English.
XX The invention relates to a new isolated nucleic acid molecule comprises a

sequence with at least 80% identity to: (a) a nucleotide encoding any of 94 PRO polypeptides whose sequences are fully defined in the specification; or (b) any of 94 nucleotide sequences fully defined in the specification; or the full length coding sequence of any these 94 nucleotide sequences. Also included are an isolated PRO polypeptide scoring at least 80% positives when compared to any of the PRO polypeptide sequences cited above (or an isolated PRO polypeptide having at least 80% amino acid sequence identity to: (a) an amino acid sequence encoded by the nucleotide deposited with ATCC numbers listed in the specification; (b) the PRO polypeptide, lacking its associated signal peptide; or (c) an extracellular domain of the PRO polypeptide, with or lacking its associated signal peptide), a vector comprising the nucleic acid molecule, a host cell comprising the vector (and producing a PRO polypeptide), a chimeric molecule comprising the PRO polypeptide fused to a heterologous amino acid sequence and an anti-PRO antibody. The PRO polypeptides or polynucleotides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These are particularly useful for detecting or treating e.g. malignancies or cancers (e.g. ovarian cancer, colorectal cancer, sarcoma, leukaemia or lymphoma), inflammatory disease, necrosis, atherosclerosis, infertility, premature aging, psoriasis, inflammatory disease, renal disease, arthritis, immune-mediated alopecia, the stroke, encephalitis, hepatitis, or multiple sclerosis in mammals. The PRO polypeptides are useful in drug screening, particularly as targets for therapeutic intervention in these diseases, and in the diagnostic determination of the presence of these diseases. The PRO polypeptides are also useful as molecular weight markers, or for chromosome identification. The PRO genes are useful as hybridization probes, or for screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene therapy, particularly for replacing a defective gene. The present sequence encodes a PRO polypeptide

Db	420	TCGGGACATGGTGGCTGTGGTGGGTGAGCAGTTTACCTCTCGAATGTGGGCCCGCCCTGGGG	479
Qy	163	yHisProGluProThrValSerTrrpTrrpLysAspGlyLysProLeuAlaLeuGlnProGln	183
Db	480	CCACCCAGAGCCACAGTCTCATGGTGAAGATGGGAAACCCCTGGCCCTCCAGCCCGG	539
Qy	183	yArgHisThrValSerGlyLysSerLeuLeuMetAlaArgAlaGlyLysSerAspGlu	203
Db	540	AAGGCACACAGTGTCCGGGGGTCCCTGCTGATGGCAAGAGCAGAGAAGAGTACCAAGG	599
Qy	203	*-ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGlySerArgAlaAlaArgV	223
Db	600	-GACCTACATGTGTGTGGCCACCAACAGCGCAGGACATAGGAGAGCCGCGACCCCGG	658
Qy	223	aIserileGlnGluProGlnAspTyrThrGluProValGluLeuLeuAlaValArgIleG	243
Db	659	TTTCCATCCAGAGAGCCCGAGGACTACACGGAGCCTGTGGAGCTTCTGGCTGTGCGAATTC	718
Qy	243	lnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA	263
Db	719	AGCTGGAAATGTGACATGCTGTGAACCCGGATCTTCGAGAGGGCCCAAGCCTAGACCGG	778
Qy	263	laValTrpLeu 266	
Db	779	CGGTGTGGCTC 789	
RESULT 12			
ID	ADA24749	standard; cDNA; 3716 BP.	
AC	ADA24749;		
DT	20-NOV-2003 (first entry)		
DE	Novel human secreted and transmembrane protein PRO860 cDNA.		
KW	Human; secreted and transmembrane protein; PRO; gene; ss; tissue typing;		
KW	chromosome identification; vaccine; cancer; retinal disorder;		
KW	sports-related joint disorder; osteoarthritis; rheumatoid arthritis;		
KW	wound healing; obesity; diabetes; hearing loss;		
KW	cardiac insufficiency disorder; kidney disorder; nervous system disorder;		
KW	haemoglobin associated disorder.		
OS	Homo sapiens.		
PN	US2003050241-A1.		
PD	13-MAR-2003.		
PF	16-OCT-2001; 2001US-00978564.		
XX	17-OCT-1997; 97US-0062250P.		
PR	03-NOV-1997; 97US-0064249P.		
PR	13-NOV-1997; 97US-0065311P.		
PR	21-NOV-1997; 97US-0066364P.		
PR	10-MAR-1998; 98US-0077450P.		
PR	11-MAR-1998; 98US-0077632P.		
PR	11-MAR-1998; 98US-0077641P.		
PR	11-MAR-1998; 98US-0077649P.		
PR	12-MAR-1998; 98US-0077791P.		
PR	13-MAR-1998; 98US-0078004P.		
PR	20-MAR-1998; 98US-0078886P.		
PR	20-MAR-1998; 98US-0078910P.		
PR	20-MAR-1998; 98US-0078936P.		
PR	20-MAR-1998; 98US-0078939P.		
PR	25-MAR-1998; 98US-0079294P.		
PR	26-MAR-1998; 98US-0079656P.		
PR	27-MAR-1998; 98US-0079663P.		
PR	27-MAR-1998; 98US-0079664P.		
PR	27-MAR-1998; 98US-0079689P.		
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PR	27-MAR-1998; 98US-0079786P.		
PR	30-MAR-1998; 98US-0079920P.		

PR 30-MAR-1998; 98US-0079923P.
 PR 31-MAR-1998; 98US-0080105P.
 PR 31-MAR-1998; 98US-0080107P.
 PR 31-MAR-1998; 98US-0080165P.
 PR 31-MAR-1998; 98US-0080194P.
 PR 01-APR-1998; 98US-0080327P.
 PR 01-APR-1998; 98US-0080328P.
 PR 01-APR-1998; 98US-0080333P.
 PR 01-APR-1998; 98US-0080334P.
 PR 08-APR-1998; 98US-0081049P.
 PR 08-APR-1998; 98US-0081070P.
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 PR 09-APR-1998; 98US-0081195P.
 PR 09-APR-1998; 98US-0081203P.
 PR 09-APR-1998; 98US-0081229P.
 PR 15-APR-1998; 98US-0081817P.
 PR 15-APR-1998; 98US-0081819P.
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 PR 21-APR-1998; 98US-0082568P.
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 PR 29-APR-1998; 98US-0083554P.
 PR 29-APR-1998; 98US-0083558P.
 PR 29-APR-1998; 98US-0083559P.
 PR 30-APR-1998; 98US-0083742P.
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 PR 06-MAY-1998; 98US-0084414P.
 PR 06-MAY-1998; 98US-0084416P.
 PR 07-MAY-1998; 98US-0084598P.
 PR 07-MAY-1998; 98US-0084600P.
 PR 07-MAY-1998; 98US-0084627P.
 PR 07-MAY-1998; 98US-0084637P.
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 PR 15-MAY-1998; 98US-0085579P.
 PR 15-MAY-1998; 98US-0085580P.
 PR 15-MAY-1998; 98US-0085582P.
 PR 15-MAY-1998; 98US-0085689P.
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 PR 15-MAY-1998; 98US-0085704P.
 PR 18-MAY-1998; 98US-0086023P.
 PR 22-MAY-1998; 98US-0086329P.
 PR 22-MAY-1998; 98US-0086414P.
 PR 22-MAY-1998; 98US-0086430P.
 PR 22-MAY-1998; 98US-0086486P.
 PR 28-MAY-1998; 98US-0087098P.
 PR 28-MAY-1998; 98US-0087106P.
 PR 28-MAY-1998; 98US-0087208P.
 PR 26-JUN-1998; 98US-0090863P.
 PR 26-JUN-1998; 98US-0091010P.
 PR 01-JUL-1998; 98US-0091359P.
 PR 30-JUL-1998; 98US-0094651P.
 PR 11-SEP-1998; 98US-0100038P.
 PR 07-OCT-1998; 98WO-US021141.
 PR 20-NOV-1998; 98US-0109304P.
 PR 20-NOV-1998; 98WO-US024855.
 PR 22-DEC-1998; 98US-01113296P.
 PR 23-DEC-1998; 98US-01113621P.
 PR 05-JAN-1999; 98WO-US000105.
 PR 08-MAR-1999; 98WO-US005028.
 PR 10-MAR-1999; 98WO-US005190.
 PR 12-MAR-1999; 98US-0123957P.
 PR 23-MAR-1999; 98US-0126773P.
 PR 21-APR-1999; 98US-0130232P.
 PR 26-APR-1999; 98US-0131022P.
 PR 28-APR-1999; 98US-0131445P.
 PR 14-MAY-1999; 98US-0134287P.
 PR 14-MAY-1999; 98WO-US010733.
 PR 02-JUN-1999; 98WO-US012252.
 PR 16-JUN-1999; 98US-0139557P.
 PR 23-JUN-1999; 98US-0141037P.
 PR 07-JUL-1999; 98US-0142680P.
 PR 26-JUL-1999; 98US-0145698P.
 PR 28-JUL-1999; 98US-0146222P.
 PR 29-OCT-1999; 98US-0162506P.
 PR 30-NOV-1999; 98WO-US028313.
 PR 02-DEC-1999; 98WO-US028551.
 PR 12-DEC-1999; 98WO-US028565.
 PR 16-DEC-1999; 98WO-US030095.
 PR 30-DEC-1999; 98WO-US031243.
 PR 30-DEC-1999; 98WO-US031274.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000277.
 PR 11-FEB-2000; 2000WO-US000376.
 PR 18-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 10-MAR-2000; 2000WO-US006319.
 PR 21-MAR-2000; 2000WO-US007532.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 28-JUN-2000; 2000WO-US020710.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000WO-US034956.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 22-MAR-2001; 2001WO-US009552.
 PR 25-MAY-2001; 2001WO-US017052.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 30-JUL-2001; 2001US-00918585.
 XX (GETH) GENENTECH INC.
 PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 PI Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 PI Kijavini IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
 PI Stewart TA, Tumas D, Williams PM, Wood WI;
 XX WPI; 2003-521814/49.
 DR P-PSDB; ADA24750.
 XX New isolated pro polypeptides for example extracellular, secreted and
 PT membrane bound proteins, useful for modulating the biological activities
 of cells and for treating, for example diabetes, cancer, rheumatoid
 PT arthritis, and hearing loss.
 XX Claim 2; Fig 76; 461pp; English.
 PS

CC The invention describes an isolated secreted and transmembrane (PRO)
 CC polypeptide (I). PRO337 polypeptide is useful for detecting PRO4993
 CC polypeptide in a sample, and vice versa. PRO725, PRO700 and PRO739 are
 CC useful for detecting PRO1559 polypeptide in a sample, and PRO1559 is
 CC useful for detecting PRO725, PRO700 and PRO739 in a sample. PRO4993 is
 CC useful for linking a bioactive molecule to a cell expressing a PRO337
 CC polypeptide, and PRO337 is useful for linking a bioactive molecule to a
 CC cell expressing a PRO4993 polypeptide. PRO1559 is useful for linking a
 CC bioactive molecule to a cell expressing a PRO735, PRO700 and PRO739

Alignment Scores:
 Pred. No.: 1.39e-124 Length: 3716
 Score: 148.00 Matches: 261
 Percent Similarity: 98.49% Conservative: 2
 Best Local Similarity: 98.49% Mismatches: 2
 Query Match: 48.84% Indels: 4
 DB: 8 Gaps: 0

US-10-047-021-86 (1-303) x AD2424749 (1-3716)

Qy 4 GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuMet 23
 Db 1 GGAGGACAGACCTCTCGGGGGGAGGGGTTCCCTCTGCTGCTCTCATCATG 60
 Qy 24 GlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAspGlnLeuPhe 43
 Db 61 GGAGGCATGGCTCAGGACTCCCGCCCGCCAGATCCTAGTCCACCCCGAGACCGAGTGTTC 120
 Qy 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrIle 63
 Db 121 CAGGCGCTCGCCCTGCAGAGATGAGTGCCA-AGCCTCAGGCGCCACCTCCACCAT 179
 Qy 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisIleLeu 83
 Db 180 CCGTGGTTCGTAATGGGAGAGCCCTCAGCATGGTGGCCCGCCAGACCCACACCTCCT 239
 Qy 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyGly 103
 Db 240 GCCGTGATGGACCTTCTGCTGTACAGCCCTTCCCGGGGACATGCCACCATGGCCA 299
 Qy 103 nAlaLeuSerThrAspLeuGlyValTyThrCysGluAlaSerAsnArgLeuGlyThrAl 123
 Db 300 GGCCCTCTCCACAGCTGGTGTCTACATGATGAGGCGAGCAACCGGCTTGGCAGCG 359
 Qy 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspGlnIleGlnPr 143
 Db 360 AGTCAGAGAGGCGCTCGGCTGTCTGGTGTCTCCCGGAGGATTTCCAGATCCAGCC 419
 Qy 143 cArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyProProTrpGly 163
 Db 420 TCGGACATGGTGGCTGTGGTGGTGGAGCTTACTCTGGAATGTGGGCGGCTGGGG 479
 Qy 163 YHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeuGlnProGly 183
 Db 480 CCACCCAGAGCCACAGCTCTCATGGTGAAGATGGGAAACCCCTGGCCCTCCAGCCCG 539
 Qy 183 YArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu** 203
 Db 540 AAGGCACACAGTGTCCGGGGGTCCTCTGATGGCAAGAGCAGAGAGAGTGCAGAGG 599
 Qy 203 *-ThrTyMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgV 223
 Db 600 -GACCTACATGTGTGGCCACCAACAGCGCAGACATAGGAGAGCGCGGAGCCCGGG 658
 Qy 223 alSerIleGlnGluProGlnAspTyThrGluProValGluLeuLeuAlaValArgIleG 243
 Db 659 TTTCCATCCAGAGCCCGAGACTACAGGAGCTGTGGAGCTTCTGGCTGTGCGAATTC 718
 Qy 243 lnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA 263
 Db 719 AGCTGGAAATGTGACACTGTGTGAACCGGATCTCTGAGAGGGGCCCCAAGCCCTAGACCG 778
 Qy 263 laValTrpLeu 266

Db 779 CGGTGTGGCTC 789
 RESULT 13
 AC29783
 ID AC29783 standard; cDNA; 3716 BP.
 XX AC AC29783;
 XX DT 08-SEP-2003 (first entry)
 XX DE Novel human secreted and transmembrane protein PRO860 cDNA.
 XX KW Human; secreted and transmembrane protein; PRO; cell death; neuropathy;
 KW peripheral neuropathy; diabetic peripheral neuropathy;
 KW AIDS-associated neuropathy; Charcot-Marie-Tooth disease;
 KW Refsum's disease; Abetalipoproteinemia; Tangier disease;
 KW Krabbe's disease; Metachromatic leukodystrophy; Fabry's disease;
 KW Dejerine-Sottas syndrome; chromosome mapping; gene mapping; gene therapy;
 KW gene; ss.
 XX OS Homo sapiens.
 XX PN US2003050240-A1.
 XX PD 13-MAR-2003.
 XX PF 16-OCT-2001; 2001US-00978403.
 XX PR 17-OCT-1997; 97US-0062250P.
 PR 13-NOV-1997; 97US-0064249P.
 PR 21-NOV-1997; 97US-0065311P.
 PR 10-MAR-1998; 97US-0065364P.
 PR 11-MAR-1998; 98US-0077450P.
 PR 11-MAR-1998; 98US-0077641P.
 PR 11-MAR-1998; 98US-0077649P.
 PR 12-MAR-1998; 98US-0077791P.
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(GETH) GENENTECH INC.

Ashkenazi AJ, Baker KP, Botstein D, Desnucysers L, Eaton DL;
 Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
 Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ;
 Kijavini IG, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA, Shelton DL;
 Stewart TA, Tamas D, Williams PM, Wood WL;

WPI: 2003-503575/47.

P-PSDB; ABO19673.

Novel secreted and transmembrane polypeptide for modulating biological activity of cell expressing the polypeptide, identifying agonists or antagonists of polypeptide, and as molecular weight markers.

Claim 2; Fig 76; 459pp; English.

The invention describes an isolated, secreted and transmembrane polypeptide, termed PRO polypeptide (I). (I) is useful for detecting PRO4993, PRO337, PRO1559, PRO725, PRO700 or PRO739 polypeptide, and for linking a bioactive molecule to a cell expressing the above polypeptides. The bioactive molecule is a toxin, radiolabel or an antibody and causes cell death. (I) is useful as therapeutic agent, in medical and industrial applications e.g. for treating neuropathy, especially peripheral neuropathy, diabetic peripheral neuropathy, AIDS-associated neuropathy, Charcot-Marie-Tooth disease, Refsum's disease, Abetalipoproteinemia,

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US-10-047-021-86 (1-303) x ACD29783 (1-3716)

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Qy	63	eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisIleLeu	83	PR	13-NOV-1997;	97US-0065311P.
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Qy	83	uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyG	103	PR	10-MAR-1998;	98US-0077450P.
Db	240	GCCTGATGGAGACCTTCTGTCTGCTACAGCCCTGCTCCCGGGGACATGCCACCATGCCA	299	PR	11-MAR-1998;	98US-0077632P.
Qy	103	nAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeuGlyThrAl	123	PR	11-MAR-1998;	98US-0077641P.
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Qy	123	aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnIleGlnPr	143	PR	12-MAR-1998;	98US-0078004P.
Db	360	AGTCAGCAGAGGCGCTCGGCTGTCTGTGCTGTCTCGGAGGATTTCCAGATCCAGCC	419	PR	13-MAR-1998;	98US-0078004P.
Qy	143	oArgAspMetValAlaValGlyGluGlnPheThrLeuGluCysGlyProProTrpGl	163	PR	17-MAR-1998;	98US-00040220.
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Db	480	CCACCCAGAGCCACAGTCTCATGGTGGAAAGATGGGAAACCCCTGGCCCTCCAGCCCGG	539	PR	20-MAR-1998;	98US-0078936P.
Qy	183	YArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu**	203	PR	20-MAR-1998;	98US-0078936P.
Db	540	ANGCACAACAGTGTCCGGGGGTCCCTGCTGATGGCAAGCAGAGAGAGTGCAGAGG	599	PR	25-MAR-1998;	98US-0079220P.
Qy	203	*-ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgV	223	PR	26-MAR-1998;	98US-0079656P.
Db	600	-GACCTACATGTGTGGCCACCAACAGCAGCAGCATATGGAGAGCGCGCAGCCCGGG	658	PR	27-MAR-1998;	98US-0079664P.
Qy	223	alSerIleGlnGluProGlnAspTrpThrGluProValGluLeuAlaValArgIleG	243	PR	27-MAR-1998;	98US-0079689P.
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Qy	243	lnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA	263	PR	27-MAR-1998;	98US-0079788P.
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XX	AC	ADAL2410;				
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KW	XX	diabetic complication; tissue typing; human.				
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PA (GETH ) GENENTECH INC.
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PI Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;

Alignment Scores:
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QY 24 GlyGlyMetAlaGlnAspSerProGlnGlnLeuValHisProGlnAspGluPhe 43
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QY 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrI 63
Db 121 CAGGGCCCTGGCCCTGCCAGGATGAGTGCCA-AGCCTCAGGCCAGCCACCTCCACCAT 179
QY 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisLeuLe 83
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Db 240 GCCTCATGGACCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 299
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DT 27-AUG-2003 (first entry)
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XX
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KW tumour growth; retinal disorder; injury; sight loss;
KW retinitis pigmentosum; age-related macular degeneration;
KW sport-related joint problem; articular cartilage defect; osteoarthritis;
KW rheumatoid arthritis; wound healing; obesity; diabetes; insulinemia;
KW kidney disorder; mesangial cell function; Berger disease; nephropathy;
KW celiac disease; dermatitis; Crohn disease; neuropathy;
KW cardiac insufficiency disorder; peripheral neuropathy;
KW diabetic peripheral neuropathy; autonomic neuropathy;
KW reduced motility of the gastrointestinal tract;
KW atony of the urinary bladder; post polio syndrome; Krabbe's disease;
KW Charcot-Marie-Tooth disease; Fabry's disease; Tangier disease;
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XX
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XX
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PR 01-APR-1998; 98US-0080328P.
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PR 15-APR-1998; 98US-0081817P.
PR 15-APR-1998; 98US-0081819P.
PR 15-APR-1998; 98US-0081838P.
PR 15-APR-1998; 98US-0081952P.
PR 15-APR-1998; 98US-0081955P.
PR 21-APR-1998; 98US-0082568P.
PR 21-APR-1998; 98US-0082569P.
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Job time : 472 secs

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Searched: 682709 seqs, 277475446 residues

Word size: 1

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Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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- 6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

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and is derived by analysis of the total score distribution.

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c 3	8	2.6	482	4	Sequence 278, App
4	8	2.6	571	4	US-09-173-151A-5
5	8	2.6	833	2	Sequence 5, Appl
6	8	2.6	846	6	Sequence 264, App
7	8	2.6	993	4	US-08-837-029-1
8	8	2.6	1081	4	Patent No. 5164485
9	8	2.6	1286	4	Sequence 201, App
10	8	2.6	1339	4	US-09-615-192A-201
c 11	8	2.6	1662	4	Sequence 522, App
12	8	2.6	1750	4	US-09-976-594-522
					Sequence 3, Appl
					Sequence 99, Appl
					Sequence 13, Appl
					Sequence 7, Appl

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c 15	8	2.6	1771	4	US-09-056-556-13	Sequence 13, Appl
c 16	8	2.6	1771	4	US-09-072-596-13	Sequence 13, Appl
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c 19	8	2.6	1948	3	US-09-360-197-11	Sequence 11, Appl
c 20	8	2.6	2126	4	US-09-833-381-1979	Sequence 1979, Ap
c 21	8	2.6	2286	4	US-09-800-729-43	Sequence 43, Appl
c 22	8	2.6	2314	4	US-09-173-151A-9	Sequence 9, Appl
c 23	8	2.6	2329	4	US-09-800-729-11	Sequence 11, Appl
c 24	8	2.6	2355	4	US-09-800-729-27	Sequence 27, Appl
c 25	8	2.6	2427	4	US-09-023-655-457	Sequence 457, App
c 26	8	2.6	2480	4	US-09-202-918-1	Sequence 1, Appl
c 27	8	2.6	2635	4	US-09-673-395A-43	Sequence 43, Appl
c 28	8	2.6	2681	4	US-09-621-502-1	Sequence 1, Appl
c 29	8	2.6	2681	4	US-09-616-530A-6	Sequence 6, Appl
c 30	8	2.6	2703	4	US-09-673-395A-536	Sequence 536, App
c 31	8	2.6	2912	3	US-09-034-177-2	Sequence 2, Appl
c 32	8	2.6	2913	4	US-09-976-594-368	Sequence 368, App
c 33	8	2.6	2951	1	US-08-413-118-105	Sequence 105, App
c 34	8	2.6	2951	3	US-08-473-446-105	Sequence 105, App
c 35	8	2.6	3178	3	US-08-968-563-7	Sequence 7, Appl
c 36	8	2.6	3178	3	US-08-969-683A-7	Sequence 3, Appl
c 37	8	2.6	3178	4	US-09-297-928-3	Sequence 3, Appl
c 38	8	2.6	3215	4	US-09-719-528A-1	Sequence 2, Appl
c 39	8	2.6	3761	4	US-08-890-865A-2	Sequence 2, Appl
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c 42	8	2.6	5690	2	US-08-718-679-2	Sequence 2, Appl
c 43	8	2.6	6000	1	US-08-348-006B-6	Sequence 6, Appl
c 44	8	2.6	6000	2	US-08-800-825A-6	Sequence 6, Appl
c 45	8	2.6	6000	3	US-09-158-657-6	Sequence 6, Appl

ALIGNMENTS

RESULT 1

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; Patent No. 6617162
; GENERAL INFORMATION:
; APPLICANT: Kenneth W. Dobie
; APPLICANT: Mark P. Roach
; TITLE OF INVENTION: ANTISENSE MODULATION OF ESTROGEN RECEPTOR ALPHA EXPRESSION
; FILE REFERENCE: RTS-0340
; CURRENT APPLICATION NUMBER: US/10/027,983
; CURRENT FILING DATE: 2001-12-18
; NUMBER OF SEQ ID NOS: 98
; SEQ ID NO 11
; LENGTH: 392000
; TYPE: DNA
; ORGANISM: Homo sapiens
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; NAME/KEY: unsure
; LOCATION: 137740
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 137742
; OTHER INFORMATION: unknown
; NAME/KEY: misc feature
; LOCATION: (138122)...(138221)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: unsure
; LOCATION: 145507
; OTHER INFORMATION: unknown
; NAME/KEY: unsure
; LOCATION: 151967
; OTHER INFORMATION: unknown
; NAME/KEY: misc feature
; LOCATION: (151967)...(1542066)
; OTHER INFORMATION: n = A,T,C or G
; NAME/KEY: unsure

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US-09-173-151A-5/c
; Sequence 5, Application US/09173151A
; Patent No. 6326472
; GENERAL INFORMATION:
; APPLICANT: Timans, Jacqueline C.
; APPLICANT: Debets, Johannes Eduard Maria
; APPLICANT: Antonius
; APPLICANT: Sana, Theodore R.
; APPLICANT: Bazan, J. Fernando
; APPLICANT: Kastelein, Robert A.
; TITLE OF INVENTION: Human Receptor Proteins; Related Reagents and Methods
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: DNAX Research Institute
; STREET: 901 California Avenue
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1104
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/09/173.151A
; FILING DATE: 14-OCT-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/065,776
; FILING DATE: 17-NOV-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/078,008
; FILING DATE: 12-MAR-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/081,883
; FILING DATE: 15-APR-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/095,987
; FILING DATE: 10-AUG-1998
; APPLICATION NUMBER: US 60/078,416
; FILING DATE: 18-MAR-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/062,065
; FILING DATE: 15-OCT-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ching, Edwin P.
; REGISTRATION NUMBER: 34,090
; REFERENCE/DOCKET NUMBER: DX0767X
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650)852-9196
; TELEFAX: (650)496-1200
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 482 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
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; NAME/KEY: CDS
; LOCATION: 1..480
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; NAME/KEY: misc_feature
; LOCATION: 9
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US-09-621-976-264
; Sequence 264, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
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; ORGANISM: Homo sapiens
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; LOCATION: 217..276
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US-08-837-029-1
; Sequence 1, Application US/08837029
; Patent No. 5945303

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; GENERAL INFORMATION:
; APPLICANT: Wei et al.
; TITLE OF INVENTION: Human Hematopoietic - Specific Protein
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Human Genome Sciences, Inc.
; STREET: 9410 Key West Avenue
; CITY: Rockville
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/837,029
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: WO PCT/US96/04930
; FILING DATE: 11-APR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Brookes, A. Anders
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF268
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 301-309-8504
; TELEFAX: 301-309-8439
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 833 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
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; NAME/KEY: CDS
; LOCATION: 42..608
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 42..107
; FEATURE:
; NAME/KEY: mat_peptide
; LOCATION: 108..608
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; Db 51 TCACTGCCACTGCTGCTGCTG 74
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; RESULT 6
; 5164485-1
; Patent No. 5164485
; APPLICANT: FUJISAWA, YUKIO; ITOH, YASUAKI; NISHIMURA, OSAMU
; FUJII, TOMOKO
; TITLE OF INVENTION: MODIFIED HEPATITIS B VIRUS SURFACE
; ANTIGEN P31 AND PRODUCTION THEREOF
; NUMBER OF SEQUENCES: 22
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/547,948
; FILING DATE: 03-JUL-1990

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; Sequence 201, Application US/09615192A
; Patent No. 6410718
; GENERAL INFORMATION:
; APPLICANT: Bloksberg, Leonard N.
; APPLICANT: Havukkala, Ilkka
; TITLE OF INVENTION: Materials and Methods for the
; FILE REFERENCE: 11000.1003c4U
; CURRENT APPLICATION NUMBER: US/09/615,192A
; CURRENT FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 08/975,316
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: US 08/713,000
; PRIOR FILING DATE: 1996-09-11
; PRIOR APPLICATION NUMBER: US 09/169,789
; PRIOR FILING DATE: 1998-10-09
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; SOFTWARE: FastSeq for Windows Version 3.0
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; ORGANISM: Eucalyptus grandis
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; Db 53 TCCTTCCTCTCTCTCTCTCTC 76
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; RESULT 8
; US-09-976-594-522
; Sequence 522, Application US/09976594
; Patent No. 6673549
; GENERAL INFORMATION:
; APPLICANT: Furness, Michael
; APPLICANT: Buchbinder, Jenny
; TITLE OF INVENTION: GENES EXPRESSED IN C3A LIVER CELL CULTURES TREATED WITH STEROIDS
; FILE REFERENCE: PA-0041 US
; CURRENT APPLICATION NUMBER: US/09/976,594
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,409

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;; PRIOR FILING DATE: 2000-10-12
;; NUMBER OF SEQ ID NOS: 1143
;; SOFTWARE: PERL Program
;; SEQ ID NO 522
;; LENGTH: 1081
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: misc feature
;; OTHER INFORMATION: incyte ID No. 6673549 335999.1
US-09-976-594-522

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Db 270 TCCTTACCACCTACTACTACTACTA 293

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US-10-133-907-3

;; Sequence 3, Application US/10133907

;; Patent No. 6677369

;; GENERAL INFORMATION:

;; APPLICANT: Chien, Kenneth R

;; APPLICANT: Hoshijima, Masahiko

;; TITLE OF INVENTION: Method to treat hemophilia by hepatic gene transfer of Factor VII

;; TITLE OF INVENTION: with vesicle vector

;; FILE REFERENCE: 6627-P41170

;; CURRENT APPLICATION NUMBER: US/10/133,907

;; CURRENT FILING DATE: 2002-04-25

;; PRIOR APPLICATION NUMBER: 60/286,314

;; PRIOR FILING DATE: 2001-04-25

;; NUMBER OF SEQ ID NOS: 5

;; SOFTWARE: PatentIn version 3.1

;; SEQ ID NO 3

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;; TYPE: DNA

;; ORGANISM: Hepatitis B virus

US-10-133-907-3

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Db 930 CAACCACACGACGCGGCCATGCA 953

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US-09-533-029-99

;; Sequence 99, Application US/09533029

;; Patent No. 6664446

;; GENERAL INFORMATION:

;; APPLICANT: Heard, Jacqueline

;; APPLICANT: Brown, Pierre

;; APPLICANT: Riechmann, Jose-Luis

;; APPLICANT: Keddle, James

;; APPLICANT: Pineda, Omaira

;; APPLICANT: Adam, Luc

;; APPLICANT: Samaha, Raymond
;; APPLICANT: Zhang, James
;; APPLICANT: Yu, Guo-Liang
;; APPLICANT: Ratcliffe, Oliver
;; APPLICANT: Pilgrim, Marsha
;; APPLICANT: Jiang, Cai-Zhong
;; APPLICANT: Reuber, Lynne
;; TITLE OF INVENTION: DISEASE-INDUCED POLYNUCLEOTIDES
;; FILE REFERENCE: MBI-010
;; CURRENT APPLICATION NUMBER: US/09/533,029
;; CURRENT FILING DATE: 2000-03-22
;; EARLIER APPLICATION NUMBER: 60/125,814
;; EARLIER FILING DATE: 1999-03-23
;; NUMBER OF SEQ ID NOS: 121
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 99
;; LENGTH: 1339
;; TYPE: DNA
;; ORGANISM: Arabidopsis thaliana
;; FEATURE:
;; OTHER INFORMATION: G515
US-09-533-029-99

Alignment Scores:
Pred. No.: 285 Length: 1339
Score: 8.00 Matches: 8
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 2.64% Indels: 0
DB: 4 Gaps: 0

US-10-047-021-86 (1-303) x US-09-533-029-99 (1-1339)

Qy 14 SerLeuProLeuLeuLeuLeu 21
Db 611 AGCTTTCCTCTCTCTCTCTT 634

RESULT 11

US-09-668-097A-13/c

;; Sequence 13, Application US/09668097A

;; Patent No. 6673988

;; GENERAL INFORMATION:

;; APPLICANT: Cahoon, Edgar B.

;; APPLICANT: Cahoon, Rebecca E.

;; APPLICANT: Klein, Ted

;; APPLICANT: Shen, Jennie

;; TITLE OF INVENTION: Plant Lipases

;; FILE REFERENCE: BB1401 US NA

;; CURRENT APPLICATION NUMBER: US/09/668,097A

;; CURRENT FILING DATE: 2000-09-22

;; PRIOR APPLICATION NUMBER: 60/157309

;; PRIOR FILING DATE: 1999-10-01

;; NUMBER OF SEQ ID NOS: 41

;; SOFTWARE: Microsoft Office 97

;; SEQ ID NO 13

;; LENGTH: 1662

;; TYPE: DNA

;; ORGANISM: Glycine max

US-09-668-097A-13

Alignment Scores:

Pred. No.: 351 Length: 1662

Score: 8.00 Matches: 8

Percent Similarity: 100.00% Conservatives: 0

Best Local Similarity: 100.00% Mismatches: 0

Query Match: 2.64% Indels: 0

DB: 4 Gaps: 0

US-10-047-021-86 (1-303) x US-09-668-097A-13 (1-1662)

Qy 15 LeuProLeuLeuLeuLeu 22
Db 664 CTACCGCTCCCTCTCTTATT 641

Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 2.64% Indels: 0
DB: 4 Gaps: 0

US-10-047-021-86 (1-303) x US-08-818-111-13 (1-1771)

Qy 234 ProValGlueuLeuAlaValArg 241
Db 502 CCAGTCGAAGTGTGGCTGTACGT 479

RESULT 15

US-09-056-556-13/c
; Sequence 13, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Dillon, Davin C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104-7092

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/056,556
; FILING DATE: 07-APR-1998
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Maki, David J.
; REGISTRATION NUMBER: 31,392
; REFERENCE/DOCKET NUMBER: 210121.457

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 682-6031
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1771 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

US-09-056-556-13

Alignment Scores:
Pred. No.: 373 Length: 1771
Score: 8.00 Matches: 8

Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 2.64% Indels: 0
DB: 4 Gaps: 0

US-10-047-021-86 (1-303) x US-09-056-556-13 (1-1771)

Qy 234 ProValGlueuLeuAlaValArg 241
Db 502 CCAGTCGAAGTGTGGCTGTACGT 479

Search completed: March 1, 2004, 07:16:08
Job time : 165 secs

TREATM

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Run on: March 1, 2004, 07:16:14 ; Search time 397 Seconds
(without alignments)
2753.306 Million cell updates/sec

Title: US-10-047-021-86

Perfect score: 303

Sequence: 1 MGSGLGSLGGSLPLLLL.....SGPLPRLPRELQGRNTG 303

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Ygapop 60.0 , Ygapext 60.0
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 2353733 seqs, 1803733377 residues

Word size: 1

Total number of hits satisfying chosen parameters: 4700994

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Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

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-TRANS=human40.cdi -LIST=45 -DCCALIGN=200 -THR SCORE=quality -THR MIN=1
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-FGAPOP=6 -FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : Published Applications NA:*

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
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- 10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
- 15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
- 16: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
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- 18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	300	99.0	1346	15	US-10-047-021-31	Sequence 31, Appl
3	148	48.8	3716	9	US-09-978-295A-210	Sequence 210, App
4	148	48.8	3716	9	US-09-978-697-210	Sequence 210, App
5	148	48.8	3716	9	US-09-978-192A-210	Sequence 210, App
6	148	48.8	3716	9	US-09-993-832A-210	Sequence 210, App
7	148	48.8	3716	10	US-09-978-189-210	Sequence 210, App
8	148	48.8	3716	10	US-09-978-608A-210	Sequence 210, App
9	148	48.8	3716	10	US-09-978-585A-210	Sequence 210, App
10	148	48.8	3716	10	US-09-978-191A-210	Sequence 210, App
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12	148	48.8	3716	10	US-09-978-564A-210	Sequence 210, App
13	148	48.8	3716	10	US-09-993-833A-210	Sequence 210, App
14	148	48.8	3716	10	US-09-981-915A-210	Sequence 210, App
15	148	48.8	3716	10	US-09-918-585A-210	Sequence 210, App
16	148	48.8	3716	10	US-09-978-423A-210	Sequence 210, App
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18	148	48.8	3716	10	US-09-993-830A-210	Sequence 210, App
19	148	48.8	3716	10	US-09-978-757A-210	Sequence 210, App
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23	148	48.8	3716	10	US-09-978-298A-210	Sequence 210, App
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25	148	48.8	3716	10	US-09-978-681A-210	Sequence 210, App
26	148	48.8	3716	10	US-09-978-194A-210	Sequence 210, App
27	148	48.8	3716	10	US-09-999-829A-210	Sequence 210, App
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29	148	48.8	3716	10	US-09-978-544A-210	Sequence 210, App
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33	148	48.8	3716	12	US-10-164-749A-210	Sequence 210, App
34	148	48.8	3716	14	US-10-017-081A-210	Sequence 210, App
35	148	48.8	3716	14	US-10-167-749-210	Sequence 210, App
36	148	48.8	3716	14	US-10-013-921A-210	Sequence 210, App
37	148	48.8	3716	14	US-10-013-929A-210	Sequence 210, App
38	148	48.8	3716	14	US-10-016-177A-210	Sequence 210, App
39	148	48.8	3716	14	US-10-166-709A-210	Sequence 210, App
40	148	48.8	3716	14	US-10-143-031A-210	Sequence 210, App
41	148	48.8	3716	14	US-10-143-030A-210	Sequence 210, App
42	148	48.8	3716	14	US-10-002-967A-210	Sequence 210, App
43	148	48.8	3716	14	US-10-017-083A-210	Sequence 210, App
44	148	48.8	3716	14	US-10-145-128A-210	Sequence 210, App
45	148	48.8	3716	14	US-10-017-191A-210	Sequence 210, App

ALIGNMENTS

RESULT 1
US-10-411-224-31
; Sequence 31, Application US/10411224
; Publication No. US20030166906A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 50 Human Secreted Proteins
; FILE REFERENCE: P2016P1
; CURRENT APPLICATION NUMBER: US/10/411,224
; CURRENT FILING DATE: 2003-04-11
; PRIOR APPLICATION NUMBER: US/09/722,329
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: 09/262,109
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: 60/057,626
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: 60/057,663
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: 60/057,669
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: 60/058,667
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/058,974
; PRIOR FILING DATE: 1997-09-12

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; PRIOR APPLICATION NUMBER: 60/058,973
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/058,666
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: 60/090,112
; PRIOR FILING DATE: 1998-06-22
; NUMBER OF SEQ ID NOS: 206
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 31
; LENGTH: 1346
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (637)
; OTHER INFORMATION: n equals a,t,g, or c
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (850)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-411-224-31

Alignment Scores:
Pred. No.: 8.8e-278 Length: 1346
Score: 300.00 Matches: 303
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.01% Indels: 0
DB: 14 Gaps: 0

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DB 91 CTCATCATGGGAGGAGATGGCTCAGACATCCCGCCCGCAGATCTTAGTCCACCCCGCAGGAC 150
QY 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnProPro 60
DB 151 CAGCTGTTCCAGGGCCCTGGCCCTGCCAGGATGAGCTGCCAGCCTCAGGCCAGCCACCT 210
QY 61 ProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHis 80
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QY 81 HisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHis 100
DB 271 CACCTCTGCTGATGGACCCCTTCTGCTGTACAGCCCTGCTCCCGGGGACATGCCAC 330
QY 101 AspGlyGlnAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeu 120
DB 331 GATGCCAGGCGCTGTCCACAGACCTGGGTGCTACACATGTGAGGCCAGCAACCGGCTT 390
QY 121 GlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGln 140
DB 391 GGCAGGCGAGTCAGAGGCGCTGGCTGTCTGTGTGCTGCTCCCGGGAGATTTCCAG 450
QY 141 IleGlnProArgAspMetValAlaValValGlyGlnPheThrLeuGluCysGlyPro 160
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QY 161 ProTrpGlyHisProGluProThrValSerTrpTrpAspGlyLysProLeuAlaLeu 180
DB 511 CCGTGGGCGCCACCCAGAGCCACAGTCTCATGGTGGAAAGATGGAAACCCCTGGGCCCTC 570
QY 181 GlnProGlyArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSer 200
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QY 201 AspGlu***ThrTyMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAla 220

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DB 631 GAGGANGGACCTACATGTGTGTGGCCACCAACAGCGGAGGACACAGGAGAGCCGCGCA 690
QY 221 AlaArgValSerIleGlnGluProGlnAspTyThrGluProValGluLeuAlaVal 240
DB 691 GCCCGGTTTCCATCCAGGAGCCCGGAGGACTACACGAGGCTGTGGAGCTTCTGGCTGTG 750
QY 241 ArgIleGlnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysPro 260
DB 751 CGAATTCAGCTGGAATAATGTGACACTCTGAACCCGGATCTCTGCAGAGGCCCCCAGGCT 810
QY 261 ArgProAlaValTrpLeu***TrpLysValSerGlyPro***ArgLeuProAsnLeuThr 280
DB 811 AGACCGCGGCTGTGGCTCARTCTGAAGTCTAGTGGCCCTNTGGGCTGCCCAATCTTACA 870
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DB 871 CGGCTTGTTCAGGACCCAGACTGCCCGGAGGCCAGGAGCTCCGTGGGCGAGGAGG 930
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RESULT 2
US-10-047-021-31
; Sequence 31, Application US/10047021
; Publication No. US20040002591A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 50 Human Secreted Proteins
; FILE REFERENCE: PZ016P2
; CURRENT APPLICATION NUMBER: US/10/047,021
; CURRENT FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: US 60/262,066
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: US 09/722,329
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 09/262,109
; PRIOR FILING DATE: 1999-03-04
; PRIOR APPLICATION NUMBER: PCT/US98/18360
; PRIOR FILING DATE: 1998-09-03
; PRIOR APPLICATION NUMBER: US 60/057,626
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: US 60/057,663
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: US 60/057,669
; PRIOR FILING DATE: 1997-09-05
; PRIOR APPLICATION NUMBER: US 60/058,667
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: US 60/058,974
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: US 60/058,973
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: US 60/058,666
; PRIOR FILING DATE: 1997-09-12
; PRIOR APPLICATION NUMBER: US 60/090,112
; PRIOR FILING DATE: 1998-06-22
; NUMBER OF SEQ ID NOS: 206
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 31
; LENGTH: 1346
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (637)..(637)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (850)..(850)
; OTHER INFORMATION: n equals a,t,g, or c
US-10-047-021-31
Alignment Scores:

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Pred. No.: 8.8e-278 Length: 1346
Score: 300.00 Matches: 303
Percent Similarity: 100.00% Conservatives: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 99.01% Indels: 0
DB: 15 Gaps: 0

US-10-047-021-86 (1-303) x US-10-047-021-31 (1-1346)

Qy 1 MetGlySerGlyGlyAspSerLeuLeuGlyArgGlySerLeuLeuLeuLeu 20
Db 31 ATGGGCTCTGGAGGACAGGCTCTCTGGGGGAGGGTTCCTCTGCTGCTGCTG 90
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Qy 201 AspGlu***ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAla 220
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Qy 301 AsnThrGly 303
Db 931 AACACAGGA 939

RESULT 3
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; Sequence 210, Application US/09978295A
; Patent No. US2002015606A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C11
; CURRENT APPLICATION NUMBER: US/09/978,295A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/077450
; PRIOR FILING DATE: 1998-03-10
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; PRIOR FILING DATE: 1998-03-11
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; PRIOR FILING DATE: 1998-03-11
; PRIOR APPLICATION NUMBER: 60/077649
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Alignment Scores:

Pred. No.:	9,846-132	Length:	3716
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Best Local Similarity:	98.49%	Mismatches:	2
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DB:	9	Gaps:	0

US-10-047-021-86 (1-303) x US-09-978-295A-210 (1-3716)

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Db 180 CCCTGGTGTCTGAATGGGAGCCCTGAGCATGGTGGCCCCAGACCCACACCTCT 239
Qy 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyG 103
Db 240 GCCTGATGGACCTCTCTGTGTATACAGCCCTGCGCGGACATGCCACGATGCCA 299
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; Sequence 210, Application US/09978697
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; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
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; APPLICANT: Gerritsen, Mary E.
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; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavlin, Ivar J.
; APPLICANT: Kuo, Sophia S.

; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PlC27
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 ; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:

Pred. No.: 9,84e-132 Length: 3716
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 Best Local Similarity: 98.49% Mismatches: 2
 Query Match: 48.84% Indels: 4
 DB: 9 Gaps: 0

US-10-047-021-86 (1-303) x US-09-978-697-210 (1-3716)

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 Db 61 GGAGGATGGCTCAGGACTCCCGCCCGCAGATCTGTACACCCCGAGGACCATGTTTC 120
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 Db 121 CAGGGCCCTGGCCCTGCCAGGATGAGTGCCA-AGCCTCAGGCCAGCCACCTCCACCAT 179
 QY 63 eaGTrpleuLeuAndGlyGlnProLeuSerMetValProAspProHisHisLeuLe 83
 Db 180 CCGCTGGTGTGTAATGGGCGAGCCCTGAGCATGGTGGCCCGCCAGCCACACCATCTCT 239
 QY 83 uProAspGlyThrLeuLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyG 103
 Db 240 GCCTGATGGGACCTTCTGCTGTGTACAGCCCTGTCGGGGGACATGCCACCATGCCCA 299
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; GENERAL INFORMATION:
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; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
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; APPLICANT: Roy, Margaret Ann
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; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
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Alignment Scores:

Pred. No.: 9,84e-132 Length: 3716
 Score: 148.00 Matches: 261
 Percent Similarity: 98.49% Conservativeness: 0
 Best Local Similarity: 98.49% Mismatches: 2
 Query Match: 48.84% Indels: 4
 DB: 9 Gaps: 0

US-10-047-021-86 (1-303) X US-09-978-192A-210 (1-3716)

QY	4	GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuLeuMet	23
DB	1	GGAGGAGACAGCCTCTCGGGGGGAGGGGTTCCCTGCTCTGCTCTCTCTCATG	60
QY	24	GlyGlyMetAlaGlnAspSerProGlnLeuValHisProGlnAspGlnLeuPhe	43
DB	61	GGAGGCATGGCTCAGACTCCCGCCCCAGATCTAGTCCACCCCGAGGACCACTGTC	120
QY	44	GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrI	63
DB	121	CAGGGCCCTGGCCCTGCCAGATGATGCCA-AGCCTCAGGCCAGCCACCTCCACCAT	179
QY	63	eArgTrpLeuLeuGlnGlnProLeuSerMetValProProAspProHisLeuLe	83
DB	180	CGCTGGTGTGTAATGGGCGCCCTGAGCATGGTGTGCCCCAGACCCACCACTCTCT	239
QY	83	uProAspGlyThrLeuLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGly	103
DB	240	GCCTCATGGACCCCTTCTGCTGTACAGCCCTTCCCGGGGACATGCCACGATGCCA	299
QY	103	nAlaLeuSerThrAspLeuGlyValTyrThrCysGlnAlaSerLeuLeuLeuThrAl	123
DB	300	GGCCCTGTCCACAGACCTGGGTGTCTACATGTAGGCCAGCAACCGCTTGGCAGGC	359
QY	123	aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnPr	143
DB	360	AGTCAGCAGAGGGCGCTCGGCTGTCTGTGGTGTCTCCCGGGGAGATTTCCAGATCCAGCC	419
QY	143	oArgAspMetValAlaValGlyGlnGlnPheThrLeuGluCysGlyProProTrpG	163
DB	420	TCGGGACATGGTGGCTGTGGTGGGTGACAGTGTACTCTGGAATGTGGCGCCCTGGGG	479
QY	163	yHisProGluProThrValSerTrpTyrAspGlyLysProLeuAlaLeuGlnProG	183
DB	480	CCACCCAGAGCCACAGTCTCATGTGTGAAGATGGGAAACCCCTGGCCCTCCAGCCGG	539
QY	183	yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu	203
DB	540	AAGGCACACAGTGTCCGGGGGTCTCTGCTGATGGCAAGAGCAGAGAGTGCAGAGG	599
QY	203	*-ThrTyrMetCysValAlaThrLeuSerAlaGlyHisArgGluSerArgAlaArgV	223
DB	600	-GACCTACATGTGTGGCCACCAACAGCGGAGGACATAGGAGAGGCCCGCCAGCCCGGG	658
QY	223	alSerIleGlnGluProGlnAspTyrThrGluProValGluLeuLeuAlaValArgIleG	243
DB	659	TTTCCATCCAGGAGGCCCCAGGACTACAGGAGCCTGTGGAGCTTCTGCTGTGGAAATTC	718
QY	243	lnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA	263
DB	719	AGCTGGAATAATGTGACTGTGTGAACCCCGGATCTTCGAGAGGGGCCCAAGCCTAGACCGG	778

Qy 263 laValTtpLeu 266
 Db 779 CGGTGCGCTC 789

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 ; Sequence 210, Application US/09999832A
 ; Publication No. US20020192706A1
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 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Flivaroff, Ellen
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 ; APPLICANT: Gerritsen, Mary E.
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 ; APPLICANT: Kuo, Sophia S.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James
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 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; TITLE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: P2630P1C63
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 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:
 Pred. No.: 9.84e-132 Length: 3716
 Score: 148.00 Matches: 261
 Percent Similarity: 98.49% Conservative: 0
 Best Local Similarity: 98.49% Mismatches: 2
 Query Match: 48.84% Indels: 4
 DB: 9 Gaps: 0

US-10-047-021-86 (1-303) x US-09-999-832A-210 (1-3716)

Qy 4 GlyGlyaspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuMet 23

Db 1 GGAGGAGACAGCCTCTCTGGGGGGCAGGGGTTCCCTGCTCTGCTGCTCTCTCTCATCATG 60
 Qy 24 GlyGlyMetAlaGlnAspSerProProGlnIleLeuValHisProGlnAspGlnLeuPhe 43
 Db 61 GGAGGACATGGCTCAGGACTCCCGGCCAGATCTAGTCCACCCAGGACGAGTGTTC 120
 Qy 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProProThrIle 63
 Db 121 CAGGGCCCTGGCCCTGCCAGGATGAGTGGCA-AGCCTCAGGCGGACCATCTCCACCAT 179
 Qy 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisHisLeuLe 83
 Db 180 CGCTGGTTGCTGATGGGAGCCCTGAGCATGGTGGCCCCCAGACCCACACACCTCCT 239
 Qy 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyG 103
 Db 240 GCCTGATGGGACCTTCTGTGCTACAGCCCTCCCGGGGACATGCCACGATGGCCA 299
 Qy 103 nAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeuGlyThrAl 123
 Db 300 GGCCCTGTCCACAGACCTGGGTGTCTACATGTGAGGCCAGCAACCGGCTTGCACGGC 359
 Qy 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnIleGlnPr 143
 Db 360 AGTCAGCAGAGCGCTCGGCTGTCTGTGCTGTCTCCGGGAGGATTTCCAGATCCAGCC 419
 Qy 143 oArgAspMetValAlaValValGlyGlnPheThrLeuGluCysGlyProProTrpG 163
 Db 420 TCGGGACATGGTGGCTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 479
 Qy 163 yHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeuGlnProGl 183
 Db 480 CCACCCAGAGCCACAGTCTCATGTGGAAAGATGGGAAACCCCTGGCCCTCCAGCCCGG 539
 Qy 183 yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGlyLysSerAspGlu** 203
 Db 540 AAGGCACACAGTGTCCGGGGGTCCTCTCATGTGGCAGGAGAGAGAGAGAGAGAGAG 599
 Qy 203 *-ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgV 223
 Db 600 -CACCTACATGTGTGGCCACCAACAGCGGAGGACATAGGAGAGCGCGCGCCCGGG 658
 Qy 223 alSerIleGlnGluProGlnAspTyrThrGluProValGluLeuLeuAlaValArgIleG 243
 Db 659 TTTCCATCAGGAGGCCCGGAGGACTACAGGAGCGCTGTGGAGCTTCTGGCTGTGCAATT 718
 Qy 243 InLeuGluAsnValThrLeuLeuLeuProAspProAlaGluGlyProLysProArgProA 263
 Db 719 AGCTGGAAATGTGACACTGTGAAACCCGGATCTTGCAGAGGGGCCCCAGGCTAGACGG 778
 Qy 263 laValTrpLeu 266
 Db 779 CGGTGTGGCTC 789

RESULT 7

US-09-978-189-210
 ; Sequence 210, Application US/09978189
 ; Publication No. US20030004102A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
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APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C7
CURRENT APPLICATION NUMBER: US/09/978,189
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
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PRIOR APPLICATION NUMBER: 60/084366
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;; PRIOR APPLICATION NUMBER: 60/084441
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;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
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;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:
Pred. No.: 9.84e-132 Length: 3716
Score: 148.00 Matches: 261
Percent Similarity: 98.49% Conservative: 0
Best Local Similarity: 98.49% Mismatches: 2
Query Match: 48.84% Indels: 4
DB: 10 Gaps: 0

US-10-047-021-86 (1-303) x US-09-978-189-210 (1-3716)

Qy 4 GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuMet 23
Db 1 GGAGGAGACACCTCTCTGGGGGAGGGTCCCTGCTGCTGCTGCTGCTCATCATG 60
Qy 24 GlyGlyMetAlaGlnAppSerProGlnLeuValHisProGlnAspGlnLeuPhe 43
Db 61 GGAGGAGATGGCTCAGGATCCCGCCCGCAGATCTAGTCCACCCCGAGGACGCTGTC 120
Qy 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaserGlyGlnProProThrIle 63
Db 121 CAGGCGCTTGGCCCTTGCAGATAGTGTGCA-AGCTCTAGGCGAGCAGCTCCACCAT 179
Qy 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisLeuLe 83
Db 180 CCGCTGGTGTGTAATGGGAGCCCTGAGCATGCTGCCCGCCAGACCCACACCTCTCT 239
Qy 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisaspGlyG 103
Db 240 GCCTGATGGGACCTTCTGCTGCTACAGCCCTTCCCGGGGAGCATGCCACGATGGCCA 299
Qy 103 nAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeuGlyThrAl 123
Db 300 GGCCCTGTCCACAGACCTGGGTGTCTACATGTGAGGCCAGCAACCGGCTTGGCAGGC 359
Qy 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnIleGlnPr 143

Db 360 AGTCAGCAGAGGCGCTCGGCTGTCTGTGGCTGTCTCGGGAGGATTTCCAGATCCAGCC 419
Qy 143 cArgAspMetValAlaValValGlyGlnPheThrLeuGluCysGlyProProTrpG 163
Db 420 TCGGACATGGTGGCTGTGGTGGTGAGCAGTTTACTCTGGAATGTGGCGCGCTGGGG 479
Qy 163 yHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeuGlnProG 183
Db 480 CCACCCAGAGCCCAAGTCTCATGTGGAAGATGGGAACCCCTGGCGCTCCAGCCCGG 539
Qy 183 yArgHisThrValSerGlyGlySerLeuMetAlaArgAlaGluLysSerAspGlu** 203
Db 540 AAGGCACACAGTGTCCGGGGGCTCCCTGCTGATGGCAAGACAGAGAGAGTGTGACAGG 599
Qy 203 *-ThrTy-MetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgV 223
Db 600 -GACCTACATGTGTGGCCACCAACAGCGCAGGACATAGGAGAGCGCGCGAGCCGGG 658
Qy 223 alSerIleGlnGluProGlnAspTyrThrGluProValGluLeuLeuAlaValArgIleG 243
Db 659 TTTCCATCCAGAGCCCGCCAGGACTACACGAGCGCTGTGGAGCTTCTGGCTGTGGAATTC 718
Qy 243 InLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA 263
Db 719 AGCTGGAAAATGTGACACTGTGTGACCCGGATCTTGACAGAGGGCCCCCAAGCTAGACCGG 778
Qy 263 laValTrpLeu 266
Db 779 CGGTGTGGCTC 789

RESULT 8

US-09-978-608A-210
; Sequence 210, Application US/09978608A
; Publication No. US20030045462A1

GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi

; APPLICANT: Baker Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan

; APPLICANT: Ferrara, Napoleon

; APPLICANT: Filvaroff, Ellen

; APPLICANT: Fong, Sherman

; APPLICANT: Gao, Wei-Qiang

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Hillan, Kenneth J.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Kuo, Sophia S.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas F.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Shelton, David L.

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; FILE REFERENCE: P2630PIC22

; CURRENT APPLICATION NUMBER: US/09/978,608A

; CURRENT FILING DATE: 2001-10-16

; NUMBER OF SEQ ID NOS: 624

; Prior Application removed - See File Wrapper or Palm

; SEQ ID NO 210

; LENGTH: 3716

; TYPE: DNA

ORGANISM: Homo sapiens
US-09-978-608A-210

Alignment Scores:
Pred. No.: 9,84e-132 Length: 3716
Score: 148.00 Matches: 261
Percent Similarity: 98.49% Conservatives: 0
Best Local Similarity: 98.49% Mismatches: 2
Query Match: 48.84% Indels: 4
DB: 10 Gaps: 0

US-10-047-021-86 (1-303) x US-09-978-608A-210 (1-3716)

Qy	4	GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuLeuMet	23
Db	1	GGAGGAGACAGCCTCTGGGGGGGAGGGGTTCCTGCTGCTGCTGCTGCTCATG	60
Qy	24	GlyGlyMetAlaGlnAspSerProGlnLeuValHisProGlnAspGlnLeuPhe	43
Db	61	GGAGGATGGCTAGGACTCCCGCCCCAGATCTAGTCCACCCCGAGGACGCTGTT	120
Qy	44	GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrI	63
Db	121	CAGGGCCCTGGCCTCCAGGATGAGTGCCA-AGCCTCAGGCGAGCAGCTCCACCAT	179
Qy	63	eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProAspProHisLeuLe	83
Db	180	CCGCTGGTGGTGAATGGGAGCCCTGAGCATGGTGGCCCGCCAGACCCACCTCT	239
Qy	83	uProAspGlyThrLeuLeuLeuGlnProAlaArgGlyHisAlaHisaspGlyG	103
Db	240	GCCTGATGGAGCCCTTCTGCTGCTAGACCCCTGCGGGGACATGCCACGATGCCA	299
Qy	103	nAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeuGlyThr	123
Db	300	GGCCCTGTCCACAGCTGGTGTACATGATGAGCGCCAGCAACCGCTTGGCAGGC	359
Qy	123	aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnPr	143
Db	360	AGTCAGCAGAGCGCTGGCTGTCTGTGGCTGTCTCGGGAGGATTTCCAGATCCAGCC	419
Qy	143	oArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyProProTrpG	163
Db	420	TCGGGACATGTGGCTGTGGTGGTGGAGCAGTCTTACTCTGGAATGTGGCGCCCTGGG	479
Qy	163	yHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeuGlnProG	183
Db	480	CCACCCAGAGCCACAGTCTCATGTGGAAAGATGGGAAACCCCTGCGCCCTCCAGCCCG	539
Qy	183	yArgHisThrValSerGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu**	203
Db	540	AAGGCACACATGTCGGGGGGTCCCTGCTGATGGCAAGACAGAGAGAGTGCAGGAGG	599
Qy	203	*-ThrTyMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArg	223
Db	600	-GACCTACATGTGTGGCCACCAACAGCGCAGGACATAGGAGAGCGCGCAGCCCGG	659
Qy	223	alSerIleGlnGluProGlnAspTyThrGluProValGluLeuLeuAlaValArgIleG	243
Db	659	TTTCCATCCAGAGCCCGCAGACTACACGAGCCCTGTGGAGCTTCTGGCTGGGAATTC	718
Qy	243	inLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA	263
Db	719	AGCTGGAAATGTGACATGCTGTAACCGGATCTCTGCAGAGGGGCCCAAGCCTAGACCG	778
Qy	263	lavalTrpLeu 266	
Db	779	CGGTGTGGCTC 789	

RESULT 9

US-09-978-585A-210
; Sequence 210, Application US/0978585A
; Publication No. US20030049633A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC15
CURRENT APPLICATION NUMBER: US/09/978,585A
CURRENT FILING DATE: 2001-10-16
NUMBER OF SEQ ID NOS: 624
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 210
LENGTH: 3716
TYPE: DNA
ORGANISM: Homo sapiens
US-09-978-585A-210

Alignment Scores:
Pred. No.: 9,84e-132 Length: 3716
Score: 148.00 Matches: 261
Percent Similarity: 98.49% Conservatives: 0
Best Local Similarity: 98.49% Mismatches: 2
Query Match: 48.84% Indels: 4
DB: 10 Gaps: 0

US-10-047-021-86 (1-303) x US-09-978-585A-210 (1-3716)

Qy	4	GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuMet	23
Db	1	GGAGGAGACAGCCTCTGGGGGGGAGGGGTTCCTGCTGCTGCTGCTCATG	60
Qy	24	GlyGlyMetAlaGlnAspSerProGlnLeuValHisProGlnAspGlnLeuPhe	43
Db	61	GGAGGATGGCTAGGACTCCCGCCCCAGATCTAGTCCACCCCGAGGACGCTGTT	120
Qy	44	GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrI	63
Db	121	CAGGGCCCTGGCCTCCAGGATGAGTGCCA-AGCCTCAGGCGAGCAGCTCCACCAT	179
Qy	63	eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProAspProHisLeuLe	83
Db	180	CCGCTGGTGGTGAATGGGAGCCCTGAGCATGGTGGCCCGCCAGACCCACCTCT	239
Qy	83	uProAspGlyThrLeuLeuLeuGlnProAlaArgGlyHisAlaHisaspGlyG	103
Db	240	GCCTGATGGAGCCCTTCTGCTGCTAGACCCCTGCGGGGACATGCCACGATGCCA	299
Qy	103	nAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeuGlyThr	123

Db 300 GSCCTGTCCACAGACCTGGGTGTCTACACATGTGAGCGCCAGCAACCGGCTTGGACAGCC 359
QY 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnIleGlnPr 143
Db 360 AGTCAGACAGAGCGCTCGGCTGTCTGTGGCTGTCTCCCGGAGGATTTCCAGATCCAGCC 419
QY 143 oArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyProProTrogI 163
Db 420 TCGGACATCGGTGGCTGTGGTGGGTGAGCAGTTTACTCTGGAATGTGGGCGCCCTGGGG 479
QY 163 yHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeuGlnProGl 183
Db 480 CCACCCAGAGCCACAGACTCTCATGTGTGGAAGATGGGAAACCCCTGGCCCTCCAGCCCGG 539
QY 183 yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu** 203
Db 540 AAGGCACACAGTGTCCGGGGGTCTCCCTGTGATGCGAAGACAGAGAGTGCAGAGG 599
QY 203 *-ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgV 223
Db 600 -GACCTACATGTGTGTGCGCCACACAGCGGAGGACATAGGAGAGCGCGCCAGCCCGG 658
QY 223 alSerIleGlnGluProGlnAspTyrThrGluProValGluLeuAlaValArgIleG 243
Db 659 TTTCATCCAGAGAGCCCGGAGCTACACGAGCGCTGTGGAGCTTCTGGCTGTGCGAATTC 718
QY 243 lnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA 263
Db 719 AGCTGGAAGATGTGACTGTCTGAACTCCCGGATCTCTGCAGAGGCGCCCAAGCTAGACCGG 778
QY 263 laValTrpLeu 266
Db 779 CGGTGTGGCTC 789

RESULT 10

US-09-978-191A-210
; Sequence 210, Application US/09978191A
; Publication No. US20030050239A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C4
; CURRENT APPLICATION NUMBER: US/09/978,191A
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30

; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
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; PRIOR FILING DATE: 1998-03-27
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; PRIOR FILING DATE: 1998-03-31
; PRIOR APPLICATION NUMBER: 60/080327
; PRIOR FILING DATE: 1998-04-01
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; PRIOR FILING DATE: 1998-04-01
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; PRIOR FILING DATE: 1998-04-01
; PRIOR APPLICATION NUMBER: 60/081070
; PRIOR FILING DATE: 1998-04-08
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; PRIOR APPLICATION NUMBER: 60/081071
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/081195
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; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081229

; PRIOR FILING DATE: 1998-04-09
; PRIOR APPLICATION NUMBER: 60/081955
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; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081952
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/081838
; PRIOR FILING DATE: 1998-04-15
; PRIOR APPLICATION NUMBER: 60/082568
; PRIOR FILING DATE: 1998-04-21
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; PRIOR FILING DATE: 1998-04-21
; PRIOR APPLICATION NUMBER: 60/082704
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; PRIOR APPLICATION NUMBER: 60/082804
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; PRIOR APPLICATION NUMBER: 60/082797
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; PRIOR APPLICATION NUMBER: 60/083495
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; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083545
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; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083558
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
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; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083742
; PRIOR FILING DATE: 1998-04-30
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
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; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084598
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
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; PRIOR APPLICATION NUMBER: 60/085338
; PRIOR FILING DATE: 1998-05-13

; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:

Pred. No.: 9.84e-132 Length: 3716
Score: 148.00 Matches: 261
Percent Similarity: 98.49% Conservative: 0
Best Local Similarity: 98.49% Mismatches: 2
Query Match: 48.84% Indels: 4
DS: 10 Gaps: 0

US-10-047-021-86 (1-303) x US-09-978-191A-210 (1-3716)

QY 4 GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuLeuMet 23
DB 1 GGAGGAGACAGCTCTCTGGGGGAGGGGTTCCCTGCTCTCTCTCTCTCTCATG 60
QY 24 GlyGlyMetAlaGlnAspSerProProGlnIleLeuValHisProGlnAspGlnLeuPhe 43
DB 61 GGAGGATGGCTCAGGACTCCCGCCCGCCAGATCTTAGTCCACCCCGAGACAGGTGTT 120
QY 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrIle 63
DB 121 CAGGCCCCCTGGCCCTCCAGAGATGAGCTGCCA-AGCCTCAGCCAGCCACCTCCACCAT 179
QY 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisIleLeu 83
DB 180 CCGCTGGTTGCTCATATGGGAGCCCTGAGCATGGTGCCCGCCAGACCCACACCTCT 239
QY 83 uProAspGlyThrLeuLeuLeuLeuGlnProProAlaArgGlyHisAlaHisaspGlyG 103
DB 240 GCCTGATGGGACCCCTTCTGCTGCTCAGCCCCCTGCCCGGGAGATGCCACATGGCCA 299
QY 103 nAlaLeuSerThrAspLeuGlyValTyThrCysGluAlaSerAsnArgLeuGlyThrAl 123
DB 300 GGCCCTGTCCACAGACCTGGGTGTCTACACATGTGAGGCGCAGCAACCGCTTGGCACGG 359
QY 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnIleGlnPr 143
DB 360 AGTCAGCAGAGCGCTCGGCTGTCTGTGCTGTCTCCGGGAGGATTCAGATCCAGCC 419
QY 143 oArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyProProTrpGl 163
DB 420 TCGGACATGGTGGCTGTGGTGGTGAGCAGATTACTCTGGAATGTGGGCCCGCCCTGGG 479
QY 163 YHisProGluProThrValSerTrpTrpLysaspGlyLysProLeuAlaLeuGlnProGl 183
DB 480 CCACCCAGAGCCACAGTCTCATGTGTGAAAGATGGGAAACCCCTCGCCCTCCAGCCCGG 539
QY 183 YArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu** 203
DB 540 AAGGCACACAGTGTCCGGGGGGTCCCTGTGTATGGCAGAGCAGAGAGAGTACGAGG 599
QY 203 *-ThrTyMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaArgV 223
DB 600 -GACCTACATGTGTGTGGCCACCACAGCGCAGACATAGGGAGAGCGCGCAGCCCGG 658
QY 223 alSerIleGlnGluProGlnAspTyThrGluProValGluLeuLeuAlaValArgIleG 243

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Db 659 TTTTCATCCAGAGCCCGAGGACTACAGGAGCTGTGGAGCTTCTGCTGTGCGAATTC 718
QY 243 InLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProIysProArgProA 263
Db 719 AGCTGAAATGTGACACTGCTGAACCCCGGATCTGCGAGAGGGCCCCAAGGCTAGACCGG 778
QY 263 laValTriLeu 266
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; Sequence 210, Application US/09978403A
; Publication No. US20030050240A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J
; APPLICANT: Kijavitt, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James;
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C17
; CURRENT APPLICATION NUMBER: US/09/978,403A
; PRIOR FILING DATE: 2002-03-19
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
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 ; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:
 Pred. No.: 9.84e-132
 Score: 148.00
 Percent Similarity: 98.49%
 Best Local Similarity: 98.49%

Length: 3716
 Matches: 261
 Conservative: 0
 Mismatches: 2

Query Match: 48.84% Indels: 4
 DB: 10 Gaps: 0

US-10-047-021-86 (1-303) x US-09-978-403A-210 (1-3716)

QY 4 GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuLeuMet 23
 DB 1 GGAGGAGACAGCCTCTCTGGGGGGGAGGGGTTCCCTGCCTCTGCTGCTCTGCTATCATG 60
 QY 24 GlyGlyMetAlaGlnAspSerProGlnLeuLeuValHisProGlnAspGlnLeuPhe 43
 DB 61 GGAGGATGGCTCAGGACTCCCGGGCCAGATCTCTAGTCCACCCCGAGGACGAGTGTTC 120
 QY 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrIle 63
 DB 121 CAGGGCCCTGGCCCTGCCAGGATGAGCTGCCA-AGCCTCAGGCCAGCCACCTCCACCAT 179
 QY 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisHisLeuLe 83
 DB 180 CCGCTGGTTGCTGAATGGGACCCCTGAGCATGTGGCTCCCGAGACCCACACCACTCTCT 239
 QY 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyGly 103
 DB 240 GCCTGATGGGACCCCTCTGCTGTACGCCCTCCCGGGGACATGCCACGATGGCCA 299
 QY 103 nAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeuGlyThrAl 123
 DB 300 GGCCCTGTCCACAGACCTGGGGTGTCTACATGTGAGGCCAGCAACCGCTTGGCAGCGC 359
 QY 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnIleGlnPr 143
 DB 360 AGTCAGCAGAGCGCTCGGCTGTCTGTGGCTGTCTCCGGGAGGATTCAGATCCAGCC 419
 QY 143 oArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyProProTrpGl 163
 DB 420 TCGGACATGTGGTGGCTGTGGTGGTGAGCAGTGTCTCTGGAATGTGGGCCCGCTGGGG 479
 QY 163 yHisProGluProThrValSerTyrTyrAspGlyLysProLeuAlaLeuGlnProGl 183
 DB 480 CCACCCAGAGCCACAGTCTCATGTGTGAAGATGGGAAACCCCTGGCCCTCCAGCCCGG 539
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 DB 540 AAGGCACACAGTGTCCGGGGGTCTCTGTGTGTCATGTCAGAGCAGAGAGAGTGAAGG 599
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 DB 719 AGCTGGAATAATGTGACACTGCTGAACCCGGATCTCTGCAGAGGGGCCCAAGCCTAGACCG 778
 QY 263 laValTrpLeu 266
 DB 779 CGGTGTGGCTC 789

RESULT 12

US-09-978-564A-210
 ; Sequence 210, Application US/09978564A
 ; Publication No. US20030050241A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Hillan, Kenneth J.
 APPLICANT: Kljavin, Ivar J.
 APPLICANT: Kuo, Sophia S.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Shelton, David L.
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 TITLE OF INVENTION: Acids Encoding the Same
 FILE REFERENCE: P2630PIC25
 CURRENT APPLICATION NUMBER: US/09/978,564A
 CURRENT FILING DATE: 2001-10-16
 PRIOR APPLICATION NUMBER: 09/918585
 PRIOR FILING DATE: 2001-07-30
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Pred. No.: 9.84e-132 Length: 3716
Score: 148.00 Matches: 261
Percent Similarity: 98.49% Conservative: 0
Best Local Similarity: 98.49% Mismatches: 2
Query Match: 48.84% Indels: 4
DB: 10 Gaps: 0

US-10-047-021-86 (1-303) x US-09-999-833A-210 (1-3716)

Qy 4 GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuMet 23
Db 1 GGAGGACACACCTCTCGGGGGGAGGGGTTCCCTGCTGCTGCTGCTCATCATG 60

Qy 24 GlyGlyMetAlaGlnAspSerProGlnLeuValHisProGlnAspGlnLeuPhe 43
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Qy 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrill 63
Db 121 CAGGCGCTGGCTGCGGACGATGAGTGCCA-AGCCTCAGGCGAGCCACCTCCACCAT 179

Qy 63 eArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHisLeuLe 83
Db 180 CCGCTGTTGCTGAATGGGAGCCCTCGAGCATGGTCCCGCCAGACCCACACCTCTCT 239

Qy 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyG1 103
Db 240 GCCTGATGGGACCTTCTGCTGCTACAGCCCGCTGCGGGGACATGCCAGATGSCCA 299

Qy 103 nAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeuGlyThrAl 123
Db 300 GGCCCTGTCCACAGACCTGGGTGTCTACATGTGAGGCGGAGCAACCGGCTTGGCAGGC 359

Qy 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnlleGlnPr 143
Db 360 AGTCAGCAGAGGCGCTGGCTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 419

Qy 143 oArgAspMetValAlaValGlyGluGlnPheThrLeuGluCysGlyProProThrPgl 163
Db 420 TCGGACATGGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGG 479

Qy 163 yHisProGlnProThrValSerTrpTrpLysAspGlyValProLeuAlaLeuGlnProG1 183
Db 480 CCACCCAGAGCCACAGTCTCATGTGGAAAGATGGGAAACCCCTGCGCTTCCAGCCCGG 539

Qy 183 yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu** 203
Db 540 AAGGCACACATGTTCGGGGGGTCCCTGCTGATGCGAAGAGCAGAGAGAGTGCAGAGG 599

Qy 203 *-ThrTyMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgv 223

Db 600 -GACCTACATGTGTGGCCACCAACAGCGAGGACATAGGAGAGCGCGAGCCCGGG 658
Qy 223 alSerIleGlnGluProGlnAspTyrThrGluProValGluLeuAlaValArgileG 243
Db 659 TTTCCATCCAGAGCCCGGAGACTACACGAGAGCTGTGGAGCTTCTGGCTGTGGAAATC 718
Qy 243 InLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA 263
Db 719 AGCTGGAATGTGACACTGTGAACCGGATCTCTGACAGAGGCGCCCAAGCTAGACCG 778

Qy 263 laValTrpLeu 266
Db 779 CGGTGTGGCTC 789

RESULT 14
US-09-981-915A-210
; Sequence 210, Application US/09981915A
; Publication No. US20030054986A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C12
; CURRENT APPLICATION NUMBER: US/09/981,915A
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
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73	PRIOR FILING DATE: 1998-04-22	

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69	PRIOR APPLICATION NUMBER: 60/085704
70	PRIOR FILING DATE: 1998-05-15
71	PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:

Pred. No.: 9.84e-132 Length: 3716
Score: 148.00 Matches: 261
Percent Similarity: 98.49% Conservatives: 0
Best Local Similarity: 98.49% Mismatches: 2
Query Match: 48.84% Indels: 4
DB: 10 Gaps: 0

US-10-047-021-86 (1-303) x US-09-981-915A-210 (1-3716)

QY 4 GlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeuLeuMet 23
DB 1 GGAGGAGACAGCTCTCTGGGGGAGAGGGTTCTCTGCTCTGCTGCTGCTCATG 60
QY 24 GlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAspGlnLeuPhe 43
DB 61 GGAGGCATGCTCAGGACTCCCGCCCGCCAGATCCTAGTCCACCCAGGACCAAGCTGTTC 120
QY 44 GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrIle 63
DB 121 CAGGGCCCTGGCCCTGCAGAGTGTGCTCA-AGCCTCAGGCGCAGCCACTCCACCAT 179
QY 63 eArgTrieLeuLeuAsnGlyGlnProLeuSerMetValProAspProHisIleule 83
DB 180 CCGTGTGTGTAATGGGAGCCCTGAGCATGGTGCCTCCAGAGCCACACCACTCTCT 239
QY 83 uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisaspGlyG 103
DB 240 GCCTGATGGACCTTCTGCTGTACAGCCCTGCGGGGACATGCCACCATGGCCA 299
QY 103 nAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeuGlyThrAl 123
DB 300 GGCCCTGTCCACAGCTGGGTGTCTACATGTAGGCGCAGCAACCGGTGGCAGGC 359
QY 123 aValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluaspPheGlnIleGlnPr 143
DB 360 AGTCAGCAGAGGCGCTCGGCTGTCTGTGGTGTCTCTCGGGAGGATTTCCAGATCCAGCC 419
QY 143 oArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyProProTTPGl 163
DB 420 TCGGGACATGTGGTGTGGGTGTGAGCATTTTACTCTGGAATGTGGCGCGCTGGGG 479
QY 163 yHisProGluProThrValSerTyrTrieAspGlyGlyProLeuAlaLeuGlnProGl 183
DB 480 CCACCCAGAGCCACAGCTCTCATGGTGAAAGATGGGAAACCCCTGGCCCTCCAGCCCG 539
QY 183 yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu** 203
DB 540 AAGGCACACAGTGTCCGGGGGTCTCTGCTGATGGCAAGACAGAGAGAGTGACGAGG 599
QY 203 *-ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgV 223
DB 600 -GACCTCATGTGTGTGCCACACAGCGCAGGACATAGGAGAGCGCGCAGCCCGGG 658
QY 223 alSerIleGlnGluProGlnAspTyrThrGluProValGluLeuLeuAlaValArgIleG 243
DB 659 TTTCCATCCAGAGCCCGGAGGACTACAGGAGCTGTGGAGCTTCTGGCTGTGGGAATTC 718
QY 243 lncLeuLysAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA 263
DB 719 AGCTGGAAATGTGACACTGTCTGAACCCCGGATCTCTCAGAGGGCCCCAGGCTTAGACCGG 778
QY 263 laValTrieLeu 266
DB 779 CGGTGTGGCTC 789

RESULT 15

US-09-978-824-210
; Sequence 210, Application US/09978824
; Publication No. US20030055216A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC14
CURRENT APPLICATION NUMBER: US/09/978,824
CURRENT FILING DATE: 2001-10-17
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
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PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:

Pred. No.:	9.84e-132	Length:	3716
Score:	148.00	Matches:	261
Percent Similarity:	98.49%	Conservative:	0
Best Local Similarity:	98.49%	Mismatches:	2
Query Match:	48.84%	Indels:	4
DB:	10	Gaps:	0

US-10-047-021-86 (1-303) x US-09-978-824-210 (1-3716)

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Db	1	GGAGGAGACAGCTCTCTGGGGGGGAGGGGTTCCTGCTGCTGCTGCTCATG	60
QY	24	GlyGlyMetAlaGlnAspSerProGlnLeuValHisProGlnAspGlnLeuPhe	43
Db	61	GGAGGCATGGCTCAGGACTCCCGCCCGCAGATCTCCACCCCGAGGACGCTTTC	120
QY	44	GlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProProThrIle	63
Db	121	CAGGGCCCTGGCCCTGCCAGATGAGTGTGCA-AGCTTCAGGCGCAGCCACTTCCCAT	179
QY	63	eArgTrpIleuLeuAsnGlyGlnProLeuSerMetValProProAspProHisLeuLe	83

Db	180	CCGCTGGTTGCTGAATGGGCAGCCCTGAGCATGGTGCCTCCCCAGACCCACACCCCTCCT	239
Qy	83	uProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHisAspGlyGly	103
Db	240	GCCTGATGGGACCCCTTCTGTGCTACAGCCCTCCCGGGACATGCCCCACCATGGCCA	299
Qy	103	nAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeuGlyThrAl	123
Db	300	GGCCCTGTCCACAGACTGGGTGTCTACACATGTGAGGCCAGCAACCGGCTTGCCACGGC	359
Qy	123	avalSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGlnIleGlnPr	143
Db	360	AGTCAGCAGAGGCCCTCGGCTGTCTGTGGCTGTCTCCGGGAGGATTTCCAGATCCAGCC	419
Qy	143	oArgAsnMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyProProTrpGly	163
Db	420	TCGGGAATGTTGGCTGTGGTGGTGAGCATTTTACTCTGGAATGTGGGCGGCTGGGG	479
Qy	163	yHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeuGlnProGly	183
Db	480	CCACCCAGAGCCACAGTCTCATGTTGAAAGATGGGAAACCCCTGGGCCCTCCAGCCCGG	539
Qy	183	yArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSerAspGlu**	203
Db	540	AAGGCACACAGTGTCCGGGGGCTCCCTGCTGATGGCAAGACAGAGAGAGAGTACGAGG	599
Qy	203	*-ThrTyrMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgAlaAlaArgV	223
Db	600	-GACCTACATGTGTGTGSCCACCACAGCGCAGGACATAGGGAGAGCGCGCGCGCGG	658
Qy	223	alSerIleGlnGluProGlnAspTyrThrGluProValGluLeuLeuAlaValArgIleG	243
Db	659	TTTCCATCCAGAGGCCCCAGGACTACACGGAGCCTGTGGAGCTTCTGGCTGTGGAATTC	718
Qy	243	lnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysProArgProA	263
Db	719	AGCTGGAAATGTGACACTGTGAACCCGGATCTCTGCAGAGGGCCCCCAGAGCTAGACCGG	778
Qy	263	laValTrpLeu	266
Db	779	CGGTGTGGCTC	789

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 29, 2004, 08:16:48 ; Search time 27 Seconds
(without alignments)
1079.483 Million cell updates/sec

Title: US-10-047-021-86
Perfect score: 303
Sequence: 1 MGSGDSLLGGSGSLPILL.....SGPRLPEARELRQRRNTG 303

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 283366 seqs, 96191526 residues

Word size : 0

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : PIR_78:*
1: PIR1:*
2: PIR2:*
3: PIR3:*
4: PIR4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	10	3.3	1209	2 T42718	probable neural ce
2	8	2.6	72	2 AD3406	hypothetical membr
3	8	2.6	233	2 G86703	oxidoreductase YGC
4	8	2.6	431	2 T04868	hypothetical prote
5	8	2.6	437	2 S59151	NADH2 dehydrogenas
6	8	2.6	444	2 G57431	hypothetical prote
7	8	2.6	453	2 AH2649	conserved hypothet
8	8	2.6	991	2 I49540	procollagen C-endo
9	8	2.6	1102	2 JH0717	guanylate cyclase
10	8	2.6	1501	2 I58148	protein-tyrosine-p
11	8	2.6	1863	2 S46217	protein-tyrosine-p
12	8	2.6	1894	2 C54689	protein-tyrosine-p
13	8	2.6	1897	1 TDH0UK	leukocyte antigen-
14	8	2.6	1898	2 S46216	leukocyte antigen-
15	8	2.6	1907	2 S50893	protein-tyrosine-p
16	8	2.6	1912	2 A56178	protein-tyrosine-p
17	8	2.6	6642	2 T29757	protein UNC-89 - C
18	7	2.3	18	2 I52614	u-plasminogen acti
19	7	2.3	24	2 I67553	monocyte chemotact
20	7	2.3	30	2 G45087	cysteine proteinas
21	7	2.3	51	2 S64676	acetylcholinestera
22	7	2.3	92	2 C75348	hypothetical prote
23	7	2.3	96	2 S31145	NADH2 dehydrogenas
24	7	2.3	100	2 S14490	lg heavy chain V r
25	7	2.3	100	2 A38685	apolipoprotein C-I
26	7	2.3	106	2 S14489	lg heavy chain V r
27	7	2.3	106	2 T06479	proline/leucine-ri
28	7	2.3	107	2 S14492	lg heavy chain V r
29	7	2.3	107	2 S14493	lg heavy chain V r

RESULT 1

T42718
probable neural cell adhesion molecule L1 precursor - mouse
N;Alternate names: CHL1 protein
C;Species: Mus musculus (house mouse)
C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 20-Jun-2000
C;Accession: T42718
R;Holm, J.; Hillenbrand, R.; Steuber, V.; Bartsch, U.; Moos, M.; Luebbert, H.; Montag, D.
submitted to the EMBL Data Library, December 1995
A;Description: Structural features of a close homolog of L1 (CHL1) in the mouse: a novel
A;Reference number: Z22239
A;Accession: T42718
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-1209 <HOL>
A;Cross-references: EMBL:X94310; PIDN:CAA63972.1
A;Experimental source: brain
C;Superfamily: neural cell adhesion molecule L1; fibronectin type III repeat homology; in
C;Keywords: cell adhesion; duplication; glycoprotein; glycoprotein; transmembrane protein

Query Match 3.3%; Score 10; DB 2; Length 1209;
Best Local Similarity 100.0%; Pred. No. 0.6;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 116 ASNRLGTAVS 125
| | | | | | | | | |
Db 111 ASNRLGTAVS 120

RESULT 2

AD3406
hypothetical membrane associated protein BMEI1234 [imported] - Brucella melitensis (stra
C;Species: Brucella melitensis
C;Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 01-Feb-2002
C;Accession: AD3406
R;DelVecchio, V.G.; Kapratl, V.; Redkar, R.J.; Patra, G.; Muler, C.; Los, T.; Ivanova, P
; Mazur, M.; Goltzman, E.; Selkov, E.; Elzer, P.H.; Hagius, S.; O'Callaghan, D.; Letess
Proc. Natl. Acad. Sci. U.S.A. 99, 443-448, 2002
A;Title: The genome sequence of the facultative intracellular pathogen Brucella melitensis:
A;Reference number: AD3252; PMID:11756688
A;Accession: AD3406
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-72 <KUR>
A;Cross-references: GB:AE008917; PIDN:AAL52415.1; PID:gi7983217; GSPDB:GN00190
A;Experimental source: strain 16M
C;Genetics:
A;Gene: BMEI1234
A;Map position: 1

Query Match 2.6%; Score 8; DB 2; Length 72;
Best Local Similarity 100.0%; Pred. No. 4.2;

Ig heavy chain V r
Ig heavy chain V r
hypothetical prote
hypothetical prote
hypothetical prote
hypothetical prote
hypothetical prote
hypothetical prote
receptor activity-
receptor activity
dehydrin - soybean
alpha-2u-globulin
3-isopropylmalate
3-isopropylmalate
ganglioside M2 act
ELF-1 protein prec
ephrin-A2 - human

ALIGNMENTS

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 GSLPLLLL 20
 Db 44 GSLPLLLL 51

RESULT 3
 G96703
 oxidoreductase ygcA [imported] - Lactococcus lactis subsp. lactis (strain IL1403)
 C:Species: Lactococcus lactis subsp. lactis
 C>Date: 23-Mar-2001 #sequence_revision 23-Mar-2001 #text_change 03-Aug-2001
 C:Accession: G86703
 R:Boilotin, A.; Wincker, P.; Mauger, S.; Jaillon, O.; Malarme, K.; Weissenbach, J.; Ehrlich
 Genome Res. 11, 731-753, 2001
 A:Title: The complete genome sequence of the lactic acid bacterium Lactococcus lactis ss
 A:Reference number: A86625; MUID:21235186; PMID:11337471
 A:Accession: G86703
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-233 <STO>
 A:Cross-references: GB:AB005176; PID:G12723534; PIDN:AAK04729.1; GSPDB:GN00146
 A:Experimental source: strain IL1403
 C:Genetics:
 A:Gene: ygcA

Query Match 2.6%; Score 8; DB 2; Length 233;
 Best Local Similarity 100.0%; Pred. No. 11;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 243 QLENTVLL 250
 Db 45 QLENTVLL 52

RESULT 4
 T04868
 hypothetical protein F28A21.170 - Arabidopsis thaliana
 C:Species: Arabidopsis thaliana (mouse-ear cress)
 C>Date: 23-Apr-1999 #sequence_revision 23-Apr-1999 #text_change 11-Jun-1999
 C:Accession: T04868
 R:Bevan, M.; Mueller, M.W.; Muendlein, A.; Felber, R.; Bancroft, I.; Mewes, H.W.; Mayer,
 submitted to the Protein Sequence Database, February 1999
 A:Reference number: Z15387
 A:Accession: T04868
 A:Molecule type: DNA
 A:Residues: 1-431 <BEV>
 A:Cross-references: EMBL:AL035526
 A:Experimental source: cultivar Columbia; BAC clone F28A21
 C:Genetics:
 A:Map position: 4
 A:Note: F28A21.170

Query Match 2.6%; Score 8; DB 2; Length 431;
 Best Local Similarity 100.0%; Pred. No. 19;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 SLPLLLLL 21
 Db 5 SLPLLLLL 12

RESULT 5
 S59151
 NADH2 dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 4 - land snail mitochondrion
 C:Species: mitochondrion Albinaria albinaria (land snail)
 C>Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 03-Jun-2002
 C:Accession: S59151
 R:Hatzioglou, E.; Rodakis, G.C.; Lecanidou, R.
 Genetics 140, 1353-1366, 1995
 A:Title: Complete sequence and gene organization of the mitochondrial genome of the land
 A:Reference number: S59143; MUID:96120351; PMID:7498775
 A:Accession: S59151

A:Status: translation not shown
 A:Molecule type: DNA
 A:Residues: 1-437 <HAT>
 A:Cross-references: EMBL:X83390; NID:G975668; PIDN:CAA58304.1; PID:G975677; GSPDB:GN00135;
 C:Genetics:
 A:Gene: NDA
 A:Genome: mitochondrion
 A:Genetic code: SGC4
 C:Superfamily: NADH dehydrogenase (ubiquinone) chain 4
 C:Keywords: membrane-associated complex; mitochondrion; NAD; oxidative phosphorylation; c

Query Match 2.6%; Score 8; DB 2; Length 437;
 Best Local Similarity 100.0%; Pred. No. 20;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 SLPLLLLL 21
 Db 142 SLPLLLLL 149

RESULT 6
 G97431
 hypothetical protein AGR_C_1055 [imported] - Agrobacterium tumefaciens (strain C58, Cere
 C:Species: Agrobacterium tumefaciens
 C>Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 18-Nov-2002
 C:Accession: G97431
 R:Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Quorillo, B.; Goldman,
 A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.;
 Science 294, 2323-2328, 2001
 A:Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tum
 A:Reference number: A97359; MUID:21608551; PMID:11743194
 A:Accession: G97431
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-444 <KUR>
 A:Cross-references: GB:AE007869; PIDN:AAK86408.1; PID:GL15155542; GSPDB:GN00169
 C:Genetics:
 A:Gene: AGR_C_1055
 A:Map position: circular chromosome

Query Match 2.6%; Score 8; DB 2; Length 444;
 Best Local Similarity 100.0%; Pred. No. 20;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 82 LLPDGTLL 89
 Db 214 LLPDGTLL 221

RESULT 7
 AH2649
 conserved hypothetical protein Atu0597 [imported] - Agrobacterium tumefaciens (strain C58
 C:Species: Agrobacterium tumefaciens
 C>Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 18-Nov-2002
 C:Accession: AH2649
 R:Wood, D.W.; Secubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, L.
 erage, G.; Gallet, W.; Grant, C.; Guenther, D.; Kuryavin, T.; Levy, R.; Li, M.; McClellan
 ; Karp, P.; Romero, P.; Zhang, S.
 Science 294, 2317-2323, 2001
 A:Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm, E
 ster, E.W.
 A:Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
 A:Reference number: AB2577; MUID:21608550; PMID:11743193
 A:Accession: AH2649
 A:Status: preliminary
 A:Molecule type: DNA
 A:Residues: 1-453 <KUR>
 A:Cross-references: GB:AE008688; PIDN:AAI41614.1; PID:G17738952; GSPDB:GN00186
 A:Experimental source: strain C58 (Dupont)
 C:Genetics:
 A:Gene: Atu0597
 A:Map position: circular chromosome

Query Match 2.6%; Score 8; DB 2; Length 453;
 Best Local Similarity 100.0%; Pred. No. 20;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 82 LLPDSTLL 89
 |||||
 Db 223 LLPDSTLL 230

RESULT 8
 149540
 procollagen C-endopeptidase (EC 3.4.24.19) precursor, tolloid-like splice form - mouse
 C;Species: Mus musculus (house mouse)
 C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 21-Jan-2000
 C;Accession: I49540
 R;Fukagawa, M.; Noboru, S.; Hogan, B.L.M.; Jones, C.M.
 Dev. Biol. 163, 175-183, 1994
 A;Title: Embryonic expression of mouse bone morphogenetic protein-1 (BMP-1) which is related to the human BMP-1
 A;Reference number: 149540; MUID:94229342; PMID:8174772
 A;Accession: I49540
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: mRNA
 A;Residues: 1-991 <RES>
 A;Cross-references: GB:I24755; NID:G439606; PIDN:AAA37306.1; PID:G439607
 C;Genetics:
 A;Gene: Bmp-1
 C;Superfamily: procollagen C-endopeptidase; astacin homology; Clr/Clis repeat homology; B
 C;Keywords: hydrolase; metalloproteinase; zinc
 F;135-326/Domain: astacin homology <AST>
 F;556-592/Domain: Clf/Clis repeat homology <EGL>
 F;596-705/Domain: Clf/Clis repeat homology <CLR>
 F;712-747/Domain: EGF homology <EG2>
 F;218,222,228,277/Binding site: zinc (His, His, His, Tyr) #status predicted
 F;219/Active site: Glu #status predicted

Query Match 2.6%; Score 8; DB 2; Length 99;
 Best Local Similarity 100.0%; Pred. No. 40;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 SLPLLLLL 21
 |||||
 Db 13 SLPLLLLL 20

RESULT 9
 JH0717
 guanylate cyclase (EC 4.6.1.2) 2D precursor, retinal - human
 N;Alternate names: guanylyl cyclase; retinal guanylate cyclase 1
 C;Species: Homo sapiens (man)
 C;Date: 10-Jun-1993 #sequence_revision 10-Jun-1993 #text_change 16-Jul-1999
 C;Accession: JH0717; A55186
 R;Shyjan, A.W.; de Sauvage, F.J.; Gillett, N.A.; Goeddel, D.V.; Lowe, D.G.
 Neuron 9, 727-737, 1992
 A;Title: Molecular cloning of a retina-specific membrane guanylyl cyclase.
 A;Reference number: JH0717; MUID:93001163; PMID:I356371
 A;Accession: JH0717
 A;Molecule type: mRNA
 A;Residues: 1-1102 <SHY>
 A;Cross-references: GB:M92432
 A;Experimental source: retina
 R;Oliveira, L.; Miniou, P.; Viégas-Pequignot, E.; Rozet, J.M.; Dollfus, H.; Pittler, S.; Genomics 22, 478-481, 1994
 A;Title: Human retinal guanylate cyclase (GUC2D) maps to chromosome 17p13.1.
 A;Reference number: A55186; MUID:95104866; PMID:7806240
 A;Accession: A55186
 A;Molecule type: DNA
 A;Residues: 1001-1087 <OLI>
 A;Cross-references: GB:I26921
 C;Genetics:
 A;Gene: GDB:GUC2D
 A;Cross-references: GDB:I36012; OMIM:600179
 A;Map position: 17p13-17p13
 C;Superfamily: membrane-bound guanylate cyclase; guanylate cyclase catalytic domain hom

C;Keywords: cGMP biosynthesis; glycoprotein; phosphorus-oxygen lyase; transmembrane prote
 F;1-51/Domain: signal sequence #status predicted <SIG>
 F;52-1102/Product: guanylate cyclase #status predicted <MAT>
 F;463-487/Domain: transmembrane #status predicted <TMM>
 F;524-811/Domain: protein kinase homology <KIN>
 F;831-1059/Domain: guanylate cyclase catalytic domain homology <GCC>

Query Match 2.6%; Score 8; DB 2; Length 1102;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 88 LLLLOPPA 95
 |||||
 Db 42 LLLLOPPA 49

RESULT 10
 I58148
 protein-tyrosine-phosphatase (EC 3.1.3.48) 2B, splice form LAR - rat
 N;Alternate names: leukocyte common antigen-related phosphatase
 C;Species: Rattus norvegicus (Norway rat)
 C;Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 20-Jun-2000
 R;Walton, K.M.; Martell, K.J.; Kwak, S.P.; Dixon, J.E.; Largent, B.L.
 C;Accession: I58148; S46218
 Neuron 11, 387-400, 1993
 A;Title: A novel receptor-type protein tyrosine phosphatase is expressed during neurogen
 A;Reference number: I58148; MUID:93357030; PMID:8352946
 A;Accession: I58148
 A;Status: preliminary; translated from GB/EMBL/DBJ
 A;Molecule type: mRNA
 A;Residues: 1-1501 <WAL>
 A;Cross-references: GB:I19933; NID:G310242; PIDN:AAA42309.1; PID:G310243
 A;Note: in Genbank entry RATTYRPHOS, release 113.0, the source is designated as Rattus r
 R;Zhang, W.R.; Hashimoto, N.; Ahmad, F.; Bing, W.; Goldstein, B.J.
 Biochem. J. 302, 39-47, 1994
 A;Title: Molecular cloning and expression of a unique receptor-like protein-tyrosine-phos
 A;Reference number: S46216; MUID:94347119; PMID:8068021
 A;Accession: S46218
 A;Status: translation not shown
 A;Molecule type: mRNA
 A;Residues: 1-1501 <ZHA>
 C;Cross-references: EMBL:U12329; NID:G294573; PIDN:AA37657.1; PID:G294574
 C;Superfamily: leukocyte antigen-related protein; fibronectin type III repeat homology; :
 ogy

C;Keywords: alternative splicing; phosphoprotein; phosphoric monoester hydrolase; tyrosin
 F;47-109/Domain: immunoglobulin homology <IMM1>
 F;149-209/Domain: immunoglobulin homology <IMM2>
 F;246-300/Domain: immunoglobulin homology <IMM3>
 F;413-506/Domain: fibronectin type III repeat homology <3FR>
 F;882-1501/Domain: leukocyte common antigen cytosolic domain homology <LAC>
 F;969-1196/Domain: protein-tyrosine-phosphatase homology <PTP1>
 F;1258-1481/Domain: protein-tyrosine-phosphatase homology <PTP2>
 F;1142/Active site: Cys (phosphocysteine intermediate) #link PTP1 #status predicted
 F;1148/Binding site: substrate phosphate (Arg) #link PTP1 #status predicted
 F;1433/Active site: Cys (phosphocysteine intermediate) #link PTP2 #status predicted
 F;1439/Binding site: substrate phosphate (Arg) #link PTP2 #status predicted

Query Match 2.6%; Score 8; DB 2; Length 1501;
 Best Local Similarity 100.0%; Pred. No. 57;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CVATNSAG 214
 |||||
 Db 207 CVATNSAG 214

RESULT 11
 S48217
 protein-tyrosine-phosphatase (EC 3.1.3.48) type sigma precursor - rat
 N;Alternate names: leukocyte common antigen-related phosphatase
 C;Species: Rattus norvegicus (Norway rat)
 C;Date: 07-May-1995 #sequence_revision 03-Nov-1995 #text_change 23-Jul-1999
 C;Accession: S46217; S51174; A49104

F:1544/Binding site: substrate phosphate (Arg) #status predicted
F:1829/Active site: Cys (phosphocysteine intermediate) #status predicted
F:1835/Binding site: substrate phosphate (Arg) #status predicted

Query Match 2.6%; Score 8; DB 1; Length 1897;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CVATNSAG 214
Db 197 CVATNSAG 204

RESULT 14
S46216
leukocyte antigen-related protein precursor - rat
N:Alternate names: leukocyte common antigen homolog
N:Contains: protein-tyrosine-phosphatase (EC 3.1.3.48)
C/Species: Rattus norvegicus (Norway rat)
C/Date: 20-Feb-1995 #sequence revision 20-Feb-1995 #text_change 23-Jul-1999
C/Accession: S46216; S23252; A41032; A33154
R/Zhang, W.R.; Hashimoto, N.; Ahmad, F.; Ding, W.; Goldstein, B.J.
Biochem. J. 302, 39-47, 1994
A>Title: Molecular cloning and expression of a unique receptor-like protein-tyrosine-phosphatase
A/Reference number: S46216; MUID:94347119; PMID:8068021
A/Accession: S46216
A>Status: nucleic acid sequence not shown
A/Molecule type: mRNA
A/Residues: 1-1898 <ZHA>
R/Cross-references: EMBL:L11586; NID:G205132; PIDN:AAC37655.1; PID:G205133
R/Hashimoto, N.; Zhang, W.R.; Goldstein, B.J.
Biochem. J. 284, 569-576, 1992
A>Title: Insulin receptor and epidermal growth factor receptor dephosphorylation by three
A/Reference number: S23126; MUID:92287069; PMID:1599438
A/Accession: S23252
A>Status: nucleic acid sequence not shown
A/Molecule type: mRNA
R/Residues: 1361-1604;1649-1898 <HAS>
R/Pot, D.A.; Woodford, T.A.; Remboutsika, E.; Haun, R.S.; Dixon, J.E.
J. Biol. Chem. 266, 19688-19696, 1991
A>Title: Cloning, bacterial expression, purification, and characterization of the cytoplasmic
A/Reference number: A41032; MUID:9201172; PMID:1918076
A/Accession: A41032
A/Molecule type: mRNA
R/Residues: 1035-1072, 'S', 1074-1433, 'T', 1435-1638, 'N', 1640-1642, 'HT', 1645-1698 <POT>
R/Cross-references: GB:M60103; NID:G205130; PIDN:AAA1510.1; PID:G205131
R/Pot, D.A.; Woodford, T.A.; Remboutsika, E.; Haun, R.S.; Dixon, J.E.
submitted to the Protein Sequence Database, December 1990
A/Reference number: A33154
A/Accession: A33154
A/Molecule type: mRNA
R/Residues: 1035-1072, 'S', 1074-1433, 'T', 1435-1638, 'N', 1640-1642, 'HT', 1645-1698 <PO2>
C/Comment: Only the first of the two domains homologous with protein-tyrosine-phosphatase
C/Superfamily: leukocyte antigen-related protein; fibronectin type III repeat homology;
ogy

C/Keywords: duplication; glycoprotein; phosphoprotein; phosphoric monoester hydrolase; tyrosine phosphatase
F:1-27/Domain: (or 1-26) signal sequence #status predicted <SIG>
F:28-1898/Product: (or 27-1898) leukocyte antigen-related protein #status predicted <MAT>
F:28-1251/Domain: (or 27-1251) extracellular #status predicted <EXT>
F:47-109/Domain: immunoglobulin homology <IMM1>
F:149-209/Domain: immunoglobulin homology <IMM2>
F:246-300/Domain: immunoglobulin homology <IMM3>
F:318-400/Domain: fibronectin type III repeat homology <FN3A>
F:413-499/Domain: fibronectin type III repeat homology <FN3B>
F:511-593/Domain: fibronectin type III repeat homology <FN3C>
F:606-695/Domain: fibronectin type III repeat homology <FN3D>
F:708-799/Domain: fibronectin type III repeat homology <FN3E>
F:811-895/Domain: fibronectin type III repeat homology <FN3F>
F:906-990/Domain: fibronectin type III repeat homology <FN3G>
F:1002-1079/Domain: fibronectin type III repeat homology <FN3H>
F:1252-1275/Domain: (or 1259-1275) transmembrane #status predicted <TM>
F:1276-1898/Domain: intracellular #status predicted <INT>
F:1286-1898/Domain: leukocyte common antigen cytosolic domain homology <LAC>

F:1366-1597/Domain: protein-tyrosine-phosphatase homology <PTP1>
F:1655-1878/Domain: protein-tyrosine-phosphatase homology <PTP2>
F:54-107,156-207,253-298/Disulfide bonds: #status predicted
F:117,250,295,721,957/Binding site: carbohydrate (Asn) (covalent) #status predicted
F:1539/Active site: Cys (phosphocysteine intermediate) #status predicted
F:1545/Binding site: substrate phosphate (Arg) #status predicted
F:1830/Active site: Cys (phosphocysteine intermediate) #status predicted
F:1836/Binding site: substrate phosphate (Arg) #status predicted

Query Match 2.6%; Score 8; DB 2; Length 1898;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CVATNSAG 214
Db 207 CVATNSAG 214

RESULT 15
S50893
protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type sigma precursor - mouse
C/Species: Mus musculus (house mouse)
C/Date: 01-Aug-1995 #sequence revision 01-Sep-1995 #text_change 21-Jan-2000
R/Accession: S50893; S40281
R/Wagner, J.; Boerboom, D.; Tremblay, M.L.
Eur. J. Biochem. 226, 773-782, 1994
A>Title: Molecular cloning and tissue-specific RNA processing of a murine receptor-type I
A/Reference number: S50893; MUID:95112841; PMID:7525177
A/Accession: S50893
A>Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-1907 <WAG>
R/Cross-references: EMBL:X82288; NID:G587483; PIDN:CAA57732.1; PID:G587484
R/Hendriks, W.; Brugman, C.; Zeeuwen, P.; Schepens, J.; Wieringa, B.
submitted to the EMBL Data Library, June 1993
A/Description: Assessment of the expression levels of murine protein-tyrosine phosphatase
A/Reference number: S40280
A/Accession: S40281
A/Molecule type: mRNA
A/Residues: 1441-1501, 'E', 1503-1546 <HEN>
R/Cross-references: EMBL:Z23050; NID:G438137; PIDN:CAA80595.1; PID:G438138
C/Superfamily: leukocyte antigen-related protein; fibronectin type III repeat homology;
ogy

C/Keywords: glycoprotein; phosphoprotein; phosphoric monoester hydrolase; transmembrane
F:149-209/Domain: immunoglobulin homology <IMM1>
F:246-300/Domain: immunoglobulin homology <IMM2>
F:413-506/Domain: fibronectin type III repeat homology <3FR>
F:1288-1307/Domain: leukocyte common antigen cytosolic domain homology <LAC>
F:1375-1596/Domain: protein-tyrosine-phosphatase homology <PTP1>
F:1664-1887/Domain: protein-tyrosine-phosphatase homology <PTP2>
F:1548/Active site: Cys (phosphocysteine intermediate) #status predicted
F:1554/Binding site: substrate phosphate (Arg) #status predicted
F:1839/Active site: Cys (phosphocysteine intermediate) #status predicted
F:1845/Binding site: substrate phosphate (Arg) #status predicted

Query Match 2.6%; Score 8; DB 2; Length 1907;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CVATNSAG 214
Db 207 CVATNSAG 214

Search completed: February 29, 2004, 08:17:50
Job time : 32 secs

Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	8	2.6	120	1	SY27_CEBAL	Q921x0 mus musculus
2	8	2.6	205	1	RNS9_CEBAL	Q7yr98 cebus albif
3	8	2.6	437	1	NUAM_ALBCO	P48914 albinaria c
4	8	2.6	469	1	MM01_HORSE	Q9x8z5 equus cabal
5	8	2.6	991	1	BME1_MOUSE	P98063 mus musculus
6	8	2.6	1103	1	CYGD_HUMAN	Q02846 homo sapien
7	8	2.6	1897	1	PTPF_HUMAN	P10586 homo sapien
8	8	2.6	1912	1	PTPD_HUMAN	P23468 homo sapien
9	8	2.6	1948	1	PTNS_HUMAN	Q13332 homo sapien
10	8	2.6	6632	1	UN99_CAEEL	Q01761 caenorhabdi
11	7	2.3	96	1	NUM8_ALBTU	Q08084 albinaria t
12	7	2.3	100	1	APC2_CAVPO	P27916 cavia porce
13	7	2.3	112	1	SZ06_BOVIN	P80221 bos taurus
14	7	2.3	147	1	RMP3_MOUSE	Q9wup1 mus musculi
15	7	2.3	148	1	RMP3_HUMAN	Q08096 homo sapien
16	7	2.3	153	1	RNS6_MOUSE	Q9d244 mus musculu
17	7	2.3	164	1	UCN3_MOUSE	Q924a4 mus musculu
18	7	2.3	184	1	MUP3_MOUSE	P04939 mus musculu
19	7	2.3	184	1	RNS9_MOUSE	P60154 mus musculu
20	7	2.3	185	1	LEWD_RAT	Q8kim5 rattus norv
21	7	2.3	193	1	LEUD_LISIN	Q92a25 listeria in
22	7	2.3	193	1	LEUD_LISMO	Q8y5r6 listeria mo
23	7	2.3	193	1	SAP3_MOUSE	Q60648 mus musculu
24	7	2.3	202	1	COAE_XANAC	Q8phk7 xanthomonas
25	7	2.3	204	1	RNS9_HYLSY	Q863j9 hylobates s
26	7	2.3	204	1	RNS9_PONPY	Q7yrh4 pongo pygma
27	7	2.3	205	1	BELI_FOAMY	P14353 human spuma
28	7	2.3	205	1	RNS9_GORGO	Q863k0 gorilla gor
29	7	2.3	207	1	COAE_XANCP	Q56764 xanthomonas
30	7	2.3	209	1	EF42_MOUSE	P52801 mus musculu
31	7	2.3	212	1	NOG2_BRARE	Q9w740 brachydanio
32	7	2.3	213	1	EF42_HUMAN	Q043921 homo sapien
33	7	2.3	225	1	CBS1_ARCFU	Q30198 archaeoglob

RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohseki S.,
RA Hayashizaki Y.,
RT "Functional annotation of a full-length mouse cDNA collection";
RT Nature 403:685-690(2001).
RN [5]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RC TISSUE=Thymus;
RX MEDLINE=2238257; PubMed=12477932;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.P., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., USCIN T.B., Petershuyki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalls D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,
RT "Generation and initial analysis of more than 15,000 full-length
RT human and mouse cDNA sequences";
RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [6]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RC TISSUE=Placenta, and Testis;
RX MEDLINE=20026881; PubMed=10559234;
RA Baird J.W., Nibbs R.J.B., Komai-Koma M., Connolly J.A., Ottersbach K.,
RA Clark-Lewis I., Liew F.Y., Graham G.J.,
RT "ESKine, a novel beta-chemokine, is differentially spliced to produce
RT secretable and nuclear targeted isoforms";
RT J. Biol. Chem. 274:33496-33503(1999).
RN [7]
RP SUBCELLULAR LOCATION.
RX MEDLINE=22129044; PubMed=12133963;
RA Gortz A., Nibbs R.J.B., McLean P., Jarmin D., Lambie W., Baird J.W.,
RA Graham G.J.;
RT "The chemokine ESKine/CCL27 displays novel modes of intracrine and
RT paracrine function";
RL J. Immunol. 169:1387-1394(2002).
CC -!- FUNCTION: Chemotactic factor that attracts skin-associated memory
CC T-lymphocytes. May play a role in mediating homing of lymphocytes
CC to cutaneous sites. May play a role in cell migration during
CC embryogenesis. Nuclear forms may facilitate cellular migration by
CC inducing cytoskeletal relaxation. Binds to CCR10.
CC -!- SUBCELLULAR LOCATION: Secreted (isoform 1) or nuclear (isoform 2).
CC Isoform 1 may also be nuclear when following receptor (CCR10)-
CC mediated internalization.
CC -!- ALTERNATIVE PRODUCTS:
CC Event=Alternative splicing; Named isoforms=2;
CC Name=1;
CC Isoform=Q921X0-1; Sequence=Displayed;
CC Name=2; Synonyms=PESKY;
CC Isoform=Q921X0-2; Sequence=VSP 001065;
CC -!- TISSUE SPECIFICITY: Isoform 1 is predominantly expressed in
CC placenta and weakly in skin. Isoform 2 is predominantly expressed
CC in testes and brain, weakly in kidney and liver and even lower in
CC heart and muscle. Low expression of both isoforms in other
CC tissues.
CC -!- DEVELOPMENTAL STAGE: Expressed during development.
CC -!- SIMILARITY: Belongs to the interleukin beta (chemokine CC) family.
CC -!- CAUTION: It is uncertain whether Met-1 or Met-2 is the initiator.
CC -----
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CC -----
CC EMBL: AF099931; AAD04163.1; -
DR EMBL: AB013398; BAA88474.1; -
DR EMBL: AF082392; RAD41237.1; -
DR EMBL: AK005520; BAB24095.1; -
DR EMBL: AK005398; BAB24001.1; -
DR EMBL: BC028511; AAB28511.1; -
DR MGD: MGI:1343459; CCL27.
DR GO: GO:0005125; F:cytokine activity; IDA.
DR GO: GO:0005515; P:protein binding; IPI.
DR InterPro: IPR000827; CC_chemokine_sml.
DR InterPro: IPR001811; Chemokine_IL8.
DR SMART: SM00199; SCY; 1.
DR PROSITE: PS00472; SMALL_CYTOKINES_CC; FALSE NEG.
KW Cytokine; Nuclear protein; Signal; Alternative splicing.
FT SIGNAL 1 25 POTENTIAL.
FT CHAIN 26 120 SMALL INDUCIBLE CYTOKINE A27.
FT DISULFID 34 63 BY SIMILARITY.
FT DISULFID 35 78 BY SIMILARITY.
FT VARSPPLIC 1 24
FT CONFLICT 115 115 H -> N (IN REF. 1, 2 AND 3).
FT SEQUENCE 120 AA; 13464 MW; D1EE1270AB580BF CRC64;
Query Match 2.6%; Score 8; DB 1; Length 120;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 14 SIPLLLLL 21
Db 10 SIPLLLLL 17
RESULT 2
RNS9 CEBAL STANDARD; PRT; 205 AA.
AC Q7YRG8;
DT 15-MAR-2004 (Rel. 43, Created)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Ribonuclease-like protein 9 precursor.
GN RNASE9.
OS Cebus albifrons (White-fronted capuchin).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Platyrrhini; Cebidae; Cebinae; Cebus.
OX NCBI_TaxID=9514;
RN [1]
RP SEQUENCE FROM N.A.
RA Devor E.J., Moffat-Wilson K.A.;
RT "LOC122650 on chromosome 14q11.2 is related to the RNase A superfamily
RT and contains a unique amino-terminal pre-protein-like domain";
RL Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.
CC -!- SUBCELLULAR LOCATION: Secreted (Probable).
CC -!- SIMILARITY: Belongs to the pancreatic ribonuclease family.
CC -----
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CC -----
CC EMBL: AY330198; AAQ01508.1; -
DR InterPro: IPR001427; RNaseA.

DR ProDom; PD000535; RNaseA; 1.
 DR SMART; SM00092; RNase_Pc; 1.
 KW Signal.
 FT CHAIN 1 24 POTENTIAL.
 FT CHAIN 25 205 RIBONUCLEASE-LIKE PROTEIN 9.
 FT DISULFID 97 152 BY SIMILARITY.
 FT DISULFID 115 167 BY SIMILARITY.
 FT DISULFID 122 129 BY SIMILARITY.
 FT CARBOHYD 130 130 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 142 142 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 205 AA; 24294 MW; DBFC3217F7A070D0 CRC64;
 Query Match 2.6%; Score 8; DB 1; Length 205;
 Best Local Similarity 100.0%; Pred. No. 4.7;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 14 SLPLLLLL 21
 Db 8 SLPLLLLL 15
 RESULT 3
 NU4M_ALBCO STANDARD; PRT; 437 AA.
 ID NU4M_ALBCO
 AC P48914;
 DT 01-FEB-1996 (Rel. 33, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 01-FEB-1996 (Rel. 33, Last annotation update)
 DE NADH-ubiquinone oxidoreductase chain 4 (EC 1.6.5.3).
 GN NP4.
 OS Albinaria coerulea (Land snail).
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
 OC Sigmurethra; Clausilioidae; Clausiliidae; Alopinae; Albinaria.
 OX NCBI_TaxID=42349;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=96120351; PubMed=7498775;
 RA Hatzoglou E., Rodakis G.C., Lekanidou R.;
 RT "Complete sequence and gene organization of the mitochondrial genome
 of the land snail Albinaria coerulea";
 RL Genetics 140:1353-1366(1995).
 CC -1- CATALYTIC ACTIVITY: NADH + ubiquinone = NAD(+) + ubiquinol.
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 CC -----
 CC EMBL; X83390; CAA58304.1; -.
 DR PIR; S59151; S59151.
 DR InterPro; IPR003918; NADHub_oxred4.
 DR InterPro; IPR001750; Oxidored_q1.
 DR Pfam; PF00361; oxidored_q1.
 DR PRINTS; PR01437; NUCXDRDTASE4.
 KW Oxidoreductase; NAD; Ubiquinone; Mitochondrion.
 SQ SEQUENCE 437 AA; 49159 MW; 2A63927F187CA4D0 CRC64;
 Query Match 2.6%; Score 8; DB 1; Length 437;
 Best Local Similarity 100.0%; Pred. No. 9.2;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 14 SLPLLLLL 21
 Db 142 SLPLLLLL 149
 RESULT 4
 NM01_HORSE STANDARD; PRT; 469 AA.
 ID NM01_HORSE

AC Q9XSZ5;
 DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Interstitial collagenase precursor (EC 3.4.24.7) (Matrix
 metalloproteinase-1) (MMP-1).
 DE MMP1.
 GN Equus caballus (Horse).
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
 OX NCBI_TaxID=9796;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Richardson D.W.;
 RT "Cloning and expression of equine matrix metalloproteinase 1
 (interstitial collagenase).";
 RL Submitted (MAY-1993) to the EMBL/GenBank/DBJ databases.
 CC -1- FUNCTION: Cleaves collagens of types I, II, and III at one site in
 the helical domain. Also cleaves collagens of types VII and X.
 CC -1- CATALYTIC ACTIVITY: Cleaves preferentially one bond in native
 collagen. Cleavage of the triple helix of collagen at about three-
 quarters of the length of the molecule from the N-terminus, at
 775-Gly-Ile-776 in the alpha-1(I) chain. Cleaves synthetic
 substrates and alpha-macroglobulins at bonds where P1' is a
 hydrophobic residue.
 CC -1- COFACTOR: Binds 2 zinc ions and 4 calcium ions per subunit (By
 similarity).
 CC -1- ENZYME REGULATION: Can be activated without removal of the
 activation peptide.
 CC -1- SIMILARITY: Belongs to peptidase family M10A.
 CC -1- SIMILARITY: Contains 1 hemopexin-like domain.
 CC -----
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 CC -----
 CC HMBP; AF148882; AAD38030.1; -.
 DR HMBP; P03956; 1AYK.
 DR MEROPS; M10_001; -.
 DR InterPro; IPR000585; Hemopexin.
 DR InterPro; IPR001818; Pept_M10A_M12B.
 DR InterPro; IPR006025; Pept_M_Zn_BS.
 DR Pfam; PF00045; hemopexin; 4.
 DR Pfam; PF00413; Peptidase_M10; 1.
 DR PRINTS; PR00138; MATRIXIN.
 DR SMART; SM00120; HX; 4.
 DR SMART; SM00235; ZnMc; 1.
 DR PROSITE; PS00024; HEMOPEXIN; 1.
 DR PROSITE; PS00142; ZINC_PROTEASE; 1.
 DR PROSITE; PS00546; CYSTEINE_SWITCH; 1.
 KW Hydrolase; Metalloprotease; Glycoprotein; Calcium-binding;
 KW Metal-binding; Zinc; Zymogen; Collagen degradation;
 KW Extracellular matrix; Signal.
 FT SIGNAL 1 18 BY SIMILARITY.
 FT PROPEP 19 99 ACTIVATION PEPTIDE.
 FT CHAIN 100 469 INTERSTITIAL COLLAGENASE.
 FT DOMAIN 275 469 HEMOPEXIN-LIKE.
 FT SITE 92 92 CYSTEINE SWITCH (POTENTIAL).
 FT METAL 124 124 CALCIUM 1 (BY SIMILARITY).
 FT METAL 158 158 CALCIUM 2 (BY SIMILARITY).
 FT METAL 168 168 ZINC 1 (BY SIMILARITY).
 FT METAL 170 170 ZINC 1 (BY SIMILARITY).
 FT METAL 175 175 CALCIUM 3 (BY SIMILARITY).
 FT METAL 176 176 CALCIUM 3 (VIA CARBONYL OXYGEN) (BY
 SIMILARITY).
 FT METAL 178 178 CALCIUM 3 (VIA CARBONYL OXYGEN) (BY
 SIMILARITY).
 FT METAL 178 178 CALCIUM 3 (VIA CARBONYL OXYGEN) (BY
 SIMILARITY).
 FT

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FT METAL 180 180 CALCIUM 3 (VIA CARBONYL OXYGEN) (BY
FT METAL 183 183 ZINC 1 (BY SIMILARITY).
FT METAL 190 190 CALCIUM 2 (VIA CARBONYL OXYGEN) (BY
FT METAL 192 192 CALCIUM 2 (VIA CARBONYL OXYGEN) (BY
FT METAL 194 194 CALCIUM 2 (BY SIMILARITY).
FT METAL 196 196 ZINC 1 (BY SIMILARITY).
FT METAL 198 198 CALCIUM 3 (BY SIMILARITY).
FT METAL 199 199 CALCIUM 1 (BY SIMILARITY).
FT METAL 201 201 CALCIUM 3 (BY SIMILARITY).
FT METAL 218 218 ZINC 2 (CATALYTIC) (BY SIMILARITY).
FT ACT SITE 219 219 BY SIMILARITY.
FT METAL 222 222 ZINC 2 (CATALYTIC) (BY SIMILARITY).
FT METAL 228 228 ZINC 2 (CATALYTIC) (BY SIMILARITY).
FT METAL 285 285 CALCIUM 4 (VIA CARBONYL OXYGEN) (BY
FT METAL 329 329 CALCIUM 4 (VIA CARBONYL OXYGEN) (BY
FT METAL 378 378 CALCIUM 4 (VIA CARBONYL OXYGEN) (BY
FT METAL 427 427 CALCIUM 4 (VIA CARBONYL OXYGEN) (BY
FT DISULFID 278 466 BY SIMILARITY.
SQ SEQUENCE 469 AA; 54001 MW; ABE6760AB2C529CA CRC64;

Query Match 2.6%; Score 8; DB 1; Length 469;
Best Local Similarity 100.0%; Pred. No. 9.8;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 14 SLPLLLLL 21
DB 3 SLPLLLLL 10

RESULT 5
BMPL MOUSE STANDARD; PRT; 991 AA.
AC P98063;
DT 01-FEB-1996 (Rel. 33, Created)
DT 01-FEB-1996 (Rel. 33, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Bone morphogenetic protein 1 precursor (EC 3.4.24.19) (BMP-1)
DE (Procollagen C-proteinase) (PCP) (Mammalian tolloid protein) (mtld).
GN BMPL
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6; TISSUE=Embryo;
RX MEDLINE=94223342; PubMed=8174772;
RA Fukagawa M., Nobori S., Hogan B.L.M., Jones C.M.;
RT "Embryonic expression of mouse bone morphogenetic protein-1 (BMP-1),
RT which is related to the Drosophila dorsoventral gene tolloid and
RL encodes a putative astacin metalloendopeptidase.";
RL Dev. Biol. 163:175-183(1994).
CC -!- FUNCTION: Cleaves the C-terminal propeptides of procollagen I, II
CC and III. Induces cartilage and bone formation.
CC -!- CATALYTIC ACTIVITY: Cleavage of the C-terminal propeptide at
CC Ala-|-Asp in type I and II procollagens and at Arg-|-Asp in type
CC III.
CC -!- COFACTOR: Binds 1 zinc ion per subunit (By similarity).
CC -!- ENZYME REGULATION: Activity is increased by the procollagen C-
CC endopeptidase enhancer protein.
CC -!- TISSUE SPECIFICITY: At high levels in embryonic maternal deciduum
CC and floor plate region of the neural tube. Less in developing
CC membranous and endochondral bone, submucosa of intestine, dermis
CC of skin and the mesenchyme of spleen and lung.
CC -!- SIMILARITY: Belongs to peptidase family M12A.
CC -!- SIMILARITY: Contains 2 EGF-like domains

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CC -!- SIMILARITY: Contains 5 CUB domains.
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CC
CC EMBL; L24755; AAA37306.1; -.
CC PIR; I49540; I49540.
CC HSSP; P00736; IAPQ.
CC
CC MEROPS; M12.005; -.
CC MGD; MGI:88176; Bmp1.
CC InterPro; IPR000152; Asx hydroxyl_s.
CC InterPro; IPR000859; CUB.
CC InterPro; IPR001881; EGF_Ca.
CC InterPro; IPR006309; EGF_Like.
CC InterPro; IPR006325; Pept_M_Zn_BS.
CC InterPro; IPR006026; Peptidase_M.
CC InterPro; IPR001506; Peptidase_M12A.
CC Pfam; PF01400; Astacin; 1.
CC Pfam; PF00431; CUB; 5.
CC PRINTS; PF00008; EGF; 2.
CC PRINTS; PF00480; ASTACIN.
CC SMART; SM00042; CUB; 5.
CC SMART; SM00179; EGF_CA; 2.
CC SMART; SM00235; ZnMC; 1.
CC PROSITE; PS00010; ASX HYDROXYL; 2.
CC PROSITE; PS01180; CUB; 5.
CC PROSITE; PS00022; EGF_1; FALSE_NEG.
CC PROSITE; PS01186; EGF_2; 2.
CC PROSITE; PS00026; EGF_3; 2.
CC PROSITE; PS01187; EGF_CA; 2.
CC PROSITE; PS00142; ZINC_PROTEASE; 1.
CC KW Growth factor; Cytokine; Repeat; Osteogenesis; Chondrogenesis;
CC KW Hydrolase; Metalloprotease; EGF-like domain; Zinc; Calcium; Signal;
CC KW Glycoprotein; Zymogen.
CC SIGNAL; 1 25
CC PROPEP 26 125
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 AC Q02846;
 DT 01-JUL-1993 (Rel. 26, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Retinal guanylyl cyclase 1 precursor (BC 4.6.1.2) (Guanylate cyclase
 2D, retinal) (RETGC-1) (Rod outer segment membrane guanylate cyclase)
 DE (ROS-GC).
 DE GUCY2D OR GUC2D OR RETGC1 OR RETGC OR GUC1A4 OR CORD6.
 GN Homo sapiens (Human)
 OS Eukaryota; Eukarya; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eumetazoa; Primates; Catarrhini; Hominidae; Homo.
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 RN TISSUE=Retina;
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 RC TISSUE=Retina;
 RX MEDLINE=93001163; PubMed=1356371;
 RA Shyjan A.W., de Sauvage F.J., Gillett N.A., Goeddel D.V., Lowe D.G.;
 RT "Molecular cloning of a retina-specific membrane guanylyl cyclase.";
 RL Neuron 9:727-737(1992).
 RN [2]
 RN REVISIONS.
 RC TISSUE=Retina;
 RA Lowe D.G.;
 RL Submitted (JAN-1995) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RN SEQUENCE FROM N.A.
 RA Perrault I.;
 RL Submitted (DEC-1997) to the EMBL/GenBank/DBJ databases.
 RN [4]
 RN 3D-STRUCTURE MODELING OF 871-1028.
 RX MEDLINE=98054247; PubMed=9591039;
 RA Liu Y., Ruocho A.E., Rao V.D., Hurley J.H.;
 RT "Catalytic mechanism of the adenylyl and guanylyl cyclases: modeling
 and mutational analysis.";
 RL Proc. Natl. Acad. Sci. U.S.A. 94:13414-13419(1997).
 RN [5]
 RN VARIANT LCA1 SER-52.
 RX MEDLINE=9709458; PubMed=8944027;
 RA Perrault I., Rozet J.M., Calvas P., Gerber S., Camuzat A.,
 RA Dollfus H., Chatelin S., Souied E., Ghazi I., Leowski C.,
 RA Bonnenaison M., le Paslier D., Frezal J., Dufier J.-L., Pittler S.,
 RA Munnich A., Kaplan J.;
 RT "Retinal-specific guanylate cyclase gene mutations in Leber's
 congenital amaurosis.";
 RL Nat. Genet. 14:461-464(1996).
 RN [6]
 RN VARIANT CORD6 837-ASP--MET-839.
 RX MEDLINE=9834989; PubMed=9683616;
 RA Perrault I., Rozet J.-M., Gerber S., Kelsell R.E., Souied E.,
 RA Cabot A., Hunt D.M., Munnich A., Kaplan J.;
 RT "A retGC-1 mutation in autosomal dominant cone-rod dystrophy.";
 RL Am. J. Hum. Genet. 63:651-654(1998).
 RN [7]
 RN VARIANT CORD6 ASP-837 AND CYS-838.
 RX MEDLINE=9828246; PubMed=9618177;
 RA Kelsell R.E., Gregory-Evans K., Payne A.M., Perrault I., Kaplan J.,
 RA Yang R.-B., Garbers D.L., Bird A.C., Moore A.T., Hunt D.M.;
 RT "Mutations in the retinal guanylate cyclase (RETGC-1) gene in dominant
 cone-rod dystrophy.";
 RL Hum. Mol. Genet. 7:1179-1184(1998).

[8]
 RN CHARACTERIZATION OF VARIANT SER-565.
 RX MEDLINE=99105799; PubMed=9888789;
 RA Duda T., Venkataraman V., Goraczniak R., Lange C., Koch K.-W.,
 RA Sharma R.K.;
 RT "Functional consequences of a rod outer segment membrane guanylate
 cyclase (ROS-GC1) gene mutation linked with Leber's congenital
 amaurosis.";
 RL Biochemistry 38:509-515(1999).
 RN [9]
 RN VARIANTS CORD5 CYS-838 AND HIS-838.
 RX MEDLINE=22439680; PubMed=12552567;
 RA Udar N., Velchits S., Chalukya M., Yellore V., Nusinowitz S.,
 RA Silva-Garcia R., Vrabec T., Hussles Maunee I., Donoso L.,
 RA Small K.W.;
 RT "Identification of GUCY2D gene mutations in CORD5 families and
 evidence of incomplete penetrance.";
 RL Hum. Mutat. 21:170-171(2003).
 CC -!- FUNCTION: PROBABLY PLAYS A SPECIFIC FUNCTIONAL ROLE IN THE RODS
 AND/OR CONES OF PHOTORECEPTORS. IT MAY BE THE ENZYME INVOLVED IN
 THE RESYNTHESIS OF CGMP REQUIRED FOR RECOVERY OF THE DARK STATE
 AFTER PHOTOTRANSDUCTION.
 CC -!- CATALYTIC ACTIVITY: GTP = 3',5'-cyclic GMP + diphosphate.
 CC -!- ENZYME REGULATION: Activated by GCAP-1; inhibited by calcium.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- TISSUE SPECIFICITY: Retina. Localized exclusively in the nuclei
 and inner segments of the rod and cone photoreceptor cells.
 CC -!- DISEASE: Defects in GUCY2D are a cause of Leber congenital
 amaurosis type 1 (LCA1) [MIM:204000]. It is characterized by total
 blindness or greatly impaired vision with loss of central vision.
 CC -!- DISEASE: Defects in GUCY2D are a cause of dominant cone-rod
 dystrophy type 6 (CORD6) [MIM:601777]. It is characterized by the
 initial degeneration of cone photoreceptor cells, causing early
 loss of visual acuity and color vision, followed by the
 degeneration of rod photoreceptor cells leading to progressive
 night blindness and peripheral visual field loss. The disease
 displays phenotypic heterogeneity and different gene loci are
 involved.
 CC -!- DISEASE: Defects in GUCY2D are a cause of dominant cone-rod
 dystrophy type 5 (CORD5) [MIM:600977]. It seems to be a variant of
 CORD6.
 CC -!- SIMILARITY: Belongs to the adenylyl cyclase class-4/guanylyl
 cyclase family.
 CC -!- SIMILARITY: Contains 1 protein kinase-like domain.
 CC -!- DATABASE: NAME=Mutations of the GUCY2D gene;
 NOTE=Retina International's Scientific Newsletter;
 WWW="http://www.retina-international.com/sci-news/gcmut.htm".
 CC -----
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 or send an email to license@isb-sib.ch).
 CC -----
 DR EMBL; M92432; AAA60547.1; -.
 DR EMBL; AJ222657; CAA10914.1; -.
 DR PIR; JH0717; JH0717.
 DR PDB; 1AWL; 28-JAN-98.
 DR Genew; HGNC:4689; GUCY2D.
 DR MIM; 600179; -.
 DR MIM; 204000; -.
 DR MIM; 601777; -.
 DR MIM; 600977; -.
 DR GO; GO:0005887; C:integral to plasma membrane; TAS.
 DR GO; GO:0005640; C:nuclear outer membrane; TAS.
 DR GO; GO:0004383; F:guanylate cyclase activity; TAS.
 DR GO; GO:0008075; F:receptor guanylate cyclase activity; TAS.
 DR GO; GO:0007168; F:receptor guanylyl cyclase signaling pathway; TAS.
 DR GO; GO:0007603; F:vision; TAS.
 DR InterPro; IPR001828; ANF receptor.
 DR InterPro; IPR001054; G_cyclase.

DB	42	LLLOPPA	49
InterPro; IPR000719; Prot kinase.	InterPro; IPR001245; Tyr_kinase.	InterPro; IPR001245; Tyr_kinase.	InterPro; IPR001245; Tyr_kinase.
Pfam; PF01094; ANF_receptor; 1.	Pfam; PF01094; ANF_receptor; 1.	Pfam; PF01094; ANF_receptor; 1.	Pfam; PF01094; ANF_receptor; 1.
Pfam; PF00211; guanylate_cyc; 1.	Pfam; PF00211; guanylate_cyc; 1.	Pfam; PF00211; guanylate_cyc; 1.	Pfam; PF00211; guanylate_cyc; 1.
Pfam; PF00069; Pkinase; 1.	Pfam; PF00069; Pkinase; 1.	Pfam; PF00069; Pkinase; 1.	Pfam; PF00069; Pkinase; 1.
PRINTS; PR00109; TYRKINASE.	PRINTS; PR00109; TYRKINASE.	PRINTS; PR00109; TYRKINASE.	PRINTS; PR00109; TYRKINASE.
ProDom; PDC000001; Prot_kinase; 1.	ProDom; PDC000001; Prot_kinase; 1.	ProDom; PDC000001; Prot_kinase; 1.	ProDom; PDC000001; Prot_kinase; 1.
SMART; SM00044; CYCC; 1.	SMART; SM00044; CYCC; 1.	SMART; SM00044; CYCC; 1.	SMART; SM00044; CYCC; 1.
PROSITE; PS00452; GUANYLATE_CYCLASES_1; 1.	PROSITE; PS00452; GUANYLATE_CYCLASES_1; 1.	PROSITE; PS00452; GUANYLATE_CYCLASES_1; 1.	PROSITE; PS00452; GUANYLATE_CYCLASES_1; 1.
PROSITE; PS00125; GUANYLATE_CYCLASES_2; 1.	PROSITE; PS00125; GUANYLATE_CYCLASES_2; 1.	PROSITE; PS00125; GUANYLATE_CYCLASES_2; 1.	PROSITE; PS00125; GUANYLATE_CYCLASES_2; 1.
PROSITE; PS50011; PROTEIN_KINASE_DOM; 1.	PROSITE; PS50011; PROTEIN_KINASE_DOM; 1.	PROSITE; PS50011; PROTEIN_KINASE_DOM; 1.	PROSITE; PS50011; PROTEIN_KINASE_DOM; 1.
Lyase; cGMP_biosynthesis; Signal; Transmembrane; Vision; Glycoprotein; Multigene family; Disease mutation; Cone-rod dystrophy; Polymorphism; 3D-structure.	Lyase; cGMP_biosynthesis; Signal; Transmembrane; Vision; Glycoprotein; Multigene family; Disease mutation; Cone-rod dystrophy; Polymorphism; 3D-structure.	Lyase; cGMP_biosynthesis; Signal; Transmembrane; Vision; Glycoprotein; Multigene family; Disease mutation; Cone-rod dystrophy; Polymorphism; 3D-structure.	Lyase; cGMP_biosynthesis; Signal; Transmembrane; Vision; Glycoprotein; Multigene family; Disease mutation; Cone-rod dystrophy; Polymorphism; 3D-structure.
SIGNAL	SIGNAL	SIGNAL	SIGNAL
CHAIN	CHAIN	CHAIN	CHAIN
DOMAIN	DOMAIN	DOMAIN	DOMAIN
TRANSFEM	TRANSFEM	TRANSFEM	TRANSFEM
DOMAIN	DOMAIN	DOMAIN	DOMAIN
DOMAIN	DOMAIN	DOMAIN	DOMAIN
DOMAIN	DOMAIN	DOMAIN	DOMAIN
DISULFID	DISULFID	DISULFID	DISULFID
DISULFID	DISULFID	DISULFID	DISULFID
CARBOHYD	CARBOHYD	CARBOHYD	CARBOHYD
VARIANT	VARIANT	VARIANT	VARIANT
274	274	274	274
362	362	362	362
565	565	565	565
573	573	573	573
701	701	701	701
782	782	782	782
837	837	837	837
839	839	839	839
838	838	838	838
838	838	838	838
858	858	858	858
954	954	954	954
874	874	874	874
879	879	879	879
885	885	885	885
887	887	887	887
888	888	888	888
892	892	892	892
903	903	903	903
904	904	904	904
913	913	913	913
917	917	917	917
921	921	921	921
922	922	922	922
927	927	927	927
928	928	928	928
931	931	931	931
934	934	934	934
935	935	935	935
938	938	938	938
Query Match	Query Match	Query Match	Query Match
Best Local Similarity	Best Local Similarity	Best Local Similarity	Best Local Similarity
Matches	Matches	Matches	Matches
8; Conservative	8; Conservative	8; Conservative	8; Conservative
2.6%; Score 8; DB 1; Length 1103; 100.0%; Pred.No. 21; 0; Mismatches	2.6%; Score 8; DB 1; Length 1103; 100.0%; Pred.No. 21; 0; Mismatches	2.6%; Score 8; DB 1; Length 1103; 100.0%; Pred.No. 21; 0; Mismatches	2.6%; Score 8; DB 1; Length 1103; 100.0%; Pred.No. 21; 0; Mismatches
0; Indels	0; Indels	0; Indels	0; Indels
0; Gaps	0; Gaps	0; Gaps	0; Gaps
0;	0;	0;	0;
88	88	88	88
LLLOPPA	LLLOPPA	LLLOPPA	LLLOPPA
95	95	95	95
Query Match	Query Match	Query Match	Query Match
Best Local Similarity	Best Local Similarity	Best Local Similarity	Best Local Similarity
Matches	Matches	Matches	Matches
8; Conservative	8; Conservative	8; Conservative	8; Conservative
2.6%; Score 8; DB 1; Length 1103; 100.0%; Pred.No. 21; 0; Mismatches	2.6%; Score 8; DB 1; Length 1103; 100.0%; Pred.No. 21; 0; Mismatches	2.6%; Score 8; DB 1; Length 1103; 100.0%; Pred.No. 21; 0; Mismatches	2.6%; Score 8; DB 1; Length 1103; 100.0%; Pred.No. 21; 0; Mismatches
0; Indels	0; Indels	0; Indels	0; Indels
0; Gaps	0; Gaps	0; Gaps	0; Gaps
0;	0;	0;	0;
88	88	88	88
LLLOPPA	LLLOPPA	LLLOPPA	LLLOPPA
95	95	95	95

Query Match 2.6%; Score 8; DB 1; Length 1103;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels

Qy 88 LLLQPPA 95

QY

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DR InterPro; IPR003598; Ig_c2.
DR InterPro; IPR000387; TYR_phosphatase.
DR InterPro; IPR000242; Tyr_PP.
DR Pfam; PF00041; fn3; 7.
DR Pfam; PF00047; ig; 3.
DR Pfam; PF00102; Y_phosphatase; 2.
DR PRINTS; PR00014; ENTYPBIII.
DR PRINTS; PR00700; PRTYPHPTASE.
DR SMART; SM00060; FN3; 4.
DR SMART; SM00408; IGC2; 3.
DR SMART; SM00194; PTPC; 2.
DR PROSITE; PS50835; IG_LIKE; 3.
DR PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.
DR PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.
DR PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
KW Hydrolase; Receptor; Glycoprotein; Signal; Transmembrane;
KW Cell adhesion; Immunoglobulin domain; Repeat; 3D-structure.
FT SIGNAL 1 16
FT CHAIN 17 1897
FT DOMAIN 17 1250 EXTRACELLULAR (POTENTIAL).
FT TRANSMEM 1251 1274 POTENTIAL.
FT DOMAIN 1275 1897 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 23 113 IG-LIKE C2-TYPE 1.
FT DOMAIN 125 214 IG-LIKE C2-TYPE 2.
FT DOMAIN 222 304 IG-LIKE C2-TYPE 3.
FT DOMAIN 1360 1606 PROTEIN-TYROSINE PHOSPHATASE 1.
FT DOMAIN 1649 1897 PROTEIN-TYROSINE PHOSPHATASE 2.
FT ACT_SITE 1538 1538 PHOSPHOCYSTEINE INTERMEDIATE (BY
SIMILARITY).
FT ACT_SITE 1829 1829 PHOSPHOCYSTEINE INTERMEDIATE (BY
SIMILARITY).
FT CARBOHYD 107 107 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 240 240 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 285 285 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 711 711 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 956 956 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT MUTAGEN 1538 1538 C->S: LOSS OF ACTIVITY.
SQ SEQUENCE 1897 AA; 211844 MW; 439850F1D5C031FF CRC64;

Query Match 2.6%; Score 8; DB 1; Length 1897;
Best Local Similarity 100.0%; Pred. No. 34;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 207 CVATNSAG 214
|||
Db 197 CVATNSAG 204

RESULT 8
PTPD_HUMAN STANDARD; PRT; 1912 AA.
AC P23458;
DT 01-NOV-1991 (Rel. 20, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Protein-tyrosine phosphatase delta precursor (EC 3.1.3.48) (R-PTP-
delta).
DE delta).
GN PTPRD.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A., AND MUTAGENESIS OF ARG-1178.
RX MEDLINE=95204468; PubMed=7896816;
RA Pulido R., Krueger N.X., Serra-Pages C., Saito H., Streuli M.;
RT "Molecular characterization of the human transmembrane protein-
tyrosine phosphatase delta. Evidence for tissue-specific expression of
alternative human transmembrane protein-tyrosine phosphatase delta
isoforms.";
RL J. Biol. Chem. 270:6722-6728 (1995).
RN [2]
RP SEQUENCE OF 390-1912 FROM N.A.
```

```
TISSUE=Placenta;
MEDLINE=91006018; PubMed=2170109;
Krueger N.X., Streuli M., Saito H.;
"Structural diversity and evolution of human receptor-like protein
tyrosine phosphatases";
EMBO J. 9:3241-3252(1990).
CC -!- CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)O = protein
tyrosine + phosphate.
CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
CC -!- ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Named isoforms=3;
Comment=Additional isoforms seem to exist;
CC Name=1;
IsoId=P23468-1; Sequence=Displayed;
Name=2; Synonyms=Kidney;
IsoId=P23468-2; Sequence=VSP_005147, VSP_005148, VSP_005149;
Name=3; Synonyms=Fetal brain;
IsoId=P23468-3; Sequence=VSP_005150;
FROM THE TRANSMEMBRANE SEGMENT.
CC -!- PTM: A CLEAVAGE OCCURS THAT SEPARATES THE EXTRACELLULAR DOMAIN
FROM THE TRANSMEMBRANE SEGMENT.
CC -!- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC -!- SIMILARITY: Contains 8 fibronectin type III domains.
CC -!- SIMILARITY: Contains 2 protein-tyrosine phosphatase domains.
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EMBL; L38929; AAC11749.1; -.
EMBL; X54133; CAA38068.1; -.
PIR; A56178; A56178.
HSP; P18052; IYFO.
Gene; HGNC:9668; PTPRD.
MIM; 601598; -.
GO; GO:0005887; C:integral to plasma membrane; TAS.
GO; GO:0005001; P:transmembrane receptor protein tyrosine pho. .; TAS.
GO; GO:0006470; P:protein amino acid dephosphorylation; TAS.
GO; GO:0007185; P:transmembrane receptor protein tyrosine pho. .; TAS.
InterPro; IPR008957; FN_III-like.
InterPro; IPR003961; FN_III.
InterPro; IPR003962; FN_III subd.
InterPro; IPR007110; IG_Like.
InterPro; IPR003598; IG_C2.
InterPro; IPR000387; Tyr_phosphatase.
InterPro; IPR000242; Tyr_PP.
Pfam; PF00041; fn3; 8.
Pfam; PF00047; ig; 3.
PRINTS; PR00014; ENTYPBIII.
PRINTS; PR00700; PRTYPHPTASE.
SMART; SM00060; FN3; 8.
SMART; SM00408; IGC2; 2.
SMART; SM00194; PTPC; 2.
PROSITE; PS50835; IG_LIKE; 3.
PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.
PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
KW Hydrolase; Receptor; Glycoprotein; Signal; Transmembrane; Repeat;
KW Immunoglobulin domain; Alternative splicing.
KW SIGNAL 1 20 POTENTIAL.
CHAIN 21 1912
DOMAIN 21 1265 PROTEIN-TYROSINE PHOSPHATASE DELTA.
EXTRACELLULAR (POTENTIAL).
TRANSMEM 1266 1290 POTENTIAL.
DOMAIN 1291 1912 CYTOPLASMIC (POTENTIAL).
DOMAIN 24 114 IG-LIKE C2-TYPE 1.
DOMAIN 126 224 IG-LIKE C2-TYPE 2.
DOMAIN 236 318 IG-LIKE C2-TYPE 3.
DOMAIN 320 414 FIBRONECTIN TYPE-III 1.
DOMAIN 417 513 FIBRONECTIN TYPE-III 2.
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FT	DOMAIN	516	606	FIBONECTIN TYPE-III 3.	RA
FT	DOMAIN	609	708	FIBONECTIN TYPE-III 4.	RA
FT	DOMAIN	711	822	FIBONECTIN TYPE-III 5.	RA
FT	DOMAIN	825	916	FIBONECTIN TYPE-III 6.	RA
FT	DOMAIN	918	1017	FIBONECTIN TYPE-III 7.	RA
FT	DOMAIN	1020	1137	FIBONECTIN TYPE-III 8.	RT
FT	DOMAIN	1375	1618	PROTEIN-TYROSINE PHOSPHATASE 1.	RL
FT	DOMAIN	1619	1912	PROTEIN-TYROSINE PHOSPHATASE 2.	RN
FT	ACT_SITE	1553	1553	PHOSPHOCYSTEINE INTERMEDIATE (BY SIMILARITY).	RP
FT	ACT_SITE	1844	1844	PHOSPHOCYSTEINE INTERMEDIATE (BY SIMILARITY).	RX
FT	SITE	1175	1178	CLEAVAGE (POTENTIAL).	RA
FT	CARBOHYD	254	254	N-LINKED (GLCNAC. . .) (POTENTIAL).	RT
FT	CARBOHYD	299	299	N-LINKED (GLCNAC. . .) (POTENTIAL).	CC
FT	CARBOHYD	724	724	N-LINKED (GLCNAC. . .) (POTENTIAL).	CC
FT	CARBOHYD	832	832	N-LINKED (GLCNAC. . .) (POTENTIAL).	CC
FT	VARSPLIC	181	189	Missing (in isoform 2).	CC
FT	VARSPLIC	226	229	Missing (in isoform 2).	CC
FT	VARSPLIC	775	783	Missing (in isoform 2).	CC
FT	VARSPLIC	609	1137	Missing (in isoform 3).	CC
FT	MUTAGEN	1178	1178	R->A: 2.5-FOLD REDUCTION IN CLEAVAGE.	CC
SO	SEQUENCE	1912 AA;	214759 MW;	3A8BCD32182E26 CRC64;	CC
Query Match 2.6%; Score 8; DB 1; Length 1912;					
Best Local Similarity 100.0%; Pred. No. 34;					
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;					
Qy	207 CVATNSAG 214				
Db	207 CVATNSAG 214				
RESULT 9					
PTNS	HUMAN	STANDARD;	PRT;	1948 AA.	
AC	Q13332; Q15718; Q16341;				
DT	10-OCT-2003 (Rel. 42, Created)				
DT	10-OCT-2003 (Rel. 42, Last sequence update)				
DT	10-OCT-2003 (Rel. 42, Last annotation update)				
DE	Receptor-type protein-tyrosine phosphatase S precursor (EC 3.1.3.48)				
DE	(R-PTP-S) (Protein-tyrosine phosphatase sigma) (R-PTP-sigma).				
GN	PTPRS.				
OS	Homo sapiens (Human).				
OC	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;				
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
OX	NCBI_TaxID=9606;				
OX	[1]				
PC	SEQUENCE FROM N.A.				
PC	TISSUE=Fetal brain;				
RX	MEDLINE=961012179; PubMed=8524829;				
RA	Pulido R., Serra-Pages C., Tang M., Streuli M.;				
RA	"The LAR/PTP delta/PTP sigma subfamily of transmembrane protein-				
RT	tyrosine-phosphatases: multiple human LAR, PTP delta, and PTP sigma				
RT	isoforms are expressed in a tissue-specific manner and associate with				
RT	the LAR-interacting protein Lrp.1.;"				
RL	Proc. Natl. Acad. Sci. U.S.A. 92:11686-11690(1995).				
RN	[2]				
RP	SEQUENCE FROM N.A.				
RX	MEDLINE=96255036; PubMed=8992885;				
RA	Endo N., Rutledge S.J., Opas E.E., Vogel R., Rodan G.A., Schmidt A.;				
RT	"Human protein tyrosine phosphatase-sigma: alternative splicing and				
RT	inhibition by bisphosphonates.;"				
RT	J. Bone Miner. Res. 11:535-543(1996).				
RN	[3]				
RP	SEQUENCE OF 1-126 FROM N.A.				
RA	Lamerdin J.E., McCreedy P.M., Skowronski E., Viswanathan V.;				
RA	Burkhardt-Schultz K., Gordon L., Dias J., Ramirez M., Stilwagen S.;				
RA	Phan H., Velasco N., Do L., Regalia W., Terry A., Carnes J.;				
RA	PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.				
<p>Danganan L., Erlar A., Christensen M., Georgescu A., Avila J., Liu S., Attix C., Andreise T., Trankheim M., Amico-Keller G., Coefield J., Duarte S., Lucas S., Bruce R., Thomas P., Quan G., Kronmiller B., Arellano A., Saunders C., Ow D., Nolan M., Trong S., Kobayashi A., Olsen A.S., Carrano A.V.;</p> <p>"Sequence analysis of a 2.5 Mb region in 19p13.3.;"</p> <p>Submitted (OCT-1998) to the EMBL/GenBank/DBJ databases.</p> <p>[4]</p> <p>SEQUENCE OF 1503-1589 FROM N.A.</p> <p>MEDLINE=92119637; PubMed=1370651;</p> <p>RA Adachi M., Sekiya M., Arimura Y., Takekawa M., Itoh F., Hinoda Y., Imai K., Yachi A.;</p> <p>"Protein-tyrosine phosphatase expression in pre-B cell NALM-6.;"</p> <p>Cancer Res. 52:737-740(1992).</p> <p>CC -!- FUNCTION: Interacts with LAR-interacting protein LIP 1.</p> <p>CC -!- CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.</p> <p>CC -!- SUBCELLULAR LOCATION: Type I membrane protein.</p> <p>CC -!- ALTERNATIVE PRODUCTS:</p> <p>CC Event=Alternative splicing; Named isoforms=5;</p> <p>CC Comment=Additional isoforms seem to exist;</p> <p>CC Name=PTPS;</p> <p>CC IsoId=Q13332-1; Sequence=Displayed;</p> <p>CC Name=PTPS-MEA;</p> <p>CC IsoId=Q13332-2; Sequence=VSP_050021;</p> <p>CC Name=PTPS-MEB;</p> <p>CC IsoId=Q13332-3; Sequence=VSP_050022, VSP_050026, VSP_050027;</p> <p>CC Name=PTPS-MEC;</p> <p>CC IsoId=Q13332-4; Sequence=VSP_050024;</p> <p>CC Name=PTPS-F4-7;</p> <p>CC IsoId=Q13332-5; Sequence=VSP_050023, VSP_050025;</p> <p>CC -!- TISSUE SPECIFICITY: Detected in all tissues tested except for placenta and liver.</p> <p>CC -!- SIMILARITY: BELONGS TO THE RECEPTOR CLASS OF THE PROTEIN-TYROSINE PHOSPHATASE FAMILY.</p> <p>CC -!- SIMILARITY: Contains 3 immunoglobulin-like C2-type domain.</p> <p>CC -!- SIMILARITY: Contains 8 fibronectin type III domains.</p> <p>CC -!- SIMILARITY: Contains 2 protein-tyrosine phosphatase domains.</p> <p>CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).</p> <p>EMBL; U3234; AAC50299.1; -.</p> <p>EMBL; U40317; AAC50567.1; -.</p> <p>EMBL; AC005790; AAC62832.1; -.</p> <p>EMBL; S78080; AB21146.2; -.</p> <p>HSSP; P18052; 1YFO.</p> <p>Gene; HGNC:9681; PTPRS.</p> <p>MIM; 601576; -.</p> <p>GO; GO:0005887; C:integral to plasma membrane; TAS.</p> <p>GO; GO:0005001; F:transmembrane receptor protein tyrosine pho. . .; TAS.</p> <p>InterPro; IPR008957; FN_III-like.</p> <p>InterPro; IPR003961; FN_III.</p> <p>InterPro; IPR003962; FNIII subd.</p> <p>InterPro; IPR007110; IG-like.</p> <p>InterPro; IPR003598; IG_c2.</p> <p>InterPro; IPR000387; TYR phosphatase.</p> <p>InterPro; IPR000242; Tyr_PP.</p> <p>Pfam; PF00041; fn3; 8.</p> <p>Pfam; PF00047; IG_3.</p> <p>Pfam; PF00102; Y_phosphatase; 2.</p> <p>PRINTS; PR00014; FNTYPEIII.</p> <p>PRINTS; PR00700; PRTYPHPTASE.</p> <p>SMART; SM00060; FN3; 7.</p> <p>SMART; SM00408; IGc2; 3.</p> <p>SMART; SM00194; PTPC; 2.</p> <p>PROSITE; PS00385; IG_LIKE; 3.</p> <p>PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.</p>					

DR PROSITE; PS50835; IG LIKE; 49.
 DR PROSITE; PS50003; PH DOMAIN; 1.
 DR PROSITE; PS50002; SH3; 1.
 KW Muscle protein; Immunoglobulin domain; Repeat; SH3 domain;
 3D-structure.

FT DOMAIN 63 127 SH3.
 FT DOMAIN 152 330 DH.
 FT DOMAIN 342 498 PH.
 FT DOMAIN 547 633 IG-LIKE C2-TYPE 1.
 FT DOMAIN 648 736 IG-LIKE C2-TYPE 2.
 FT DOMAIN 748 838 IG-LIKE C2-TYPE 3.
 FT DOMAIN 946 1033 IG-LIKE C2-TYPE 4.
 FT DOMAIN 1044 1132 IG-LIKE C2-TYPE 5.
 FT DOMAIN 1140 1227 IG-LIKE C2-TYPE 6.
 FT DOMAIN 1272 1315 THR-RICH.
 FT DOMAIN 1375 1475 RCSD 1.
 FT DOMAIN 1479 1585 RCSD 2.
 FT DOMAIN 1597 1695 RCSD 3.
 FT DOMAIN 1700 1799 RCSD 4.
 FT DOMAIN 1800 1860 RCSD 5.
 FT DOMAIN 1982 2067 IG-LIKE C2-TYPE 7.
 FT DOMAIN 2071 2163 IG-LIKE C2-TYPE 8.
 FT DOMAIN 2171 2261 IG-LIKE C2-TYPE 9.
 FT DOMAIN 2269 2359 IG-LIKE C2-TYPE 10.
 FT DOMAIN 2367 2455 IG-LIKE C2-TYPE 11.
 FT DOMAIN 2463 2564 IG-LIKE C2-TYPE 12.
 FT DOMAIN 2563 2651 IG-LIKE C2-TYPE 13.
 FT DOMAIN 2657 2746 IG-LIKE C2-TYPE 14.
 FT DOMAIN 2754 2858 IG-LIKE C2-TYPE 15.
 FT DOMAIN 2887 2980 IG-LIKE C2-TYPE 16.
 FT DOMAIN 2994 3081 IG-LIKE C2-TYPE 17.
 FT DOMAIN 3087 3183 IG-LIKE C2-TYPE 18.
 FT DOMAIN 3189 3280 IG-LIKE C2-TYPE 19.
 FT DOMAIN 3286 3376 IG-LIKE C2-TYPE 20.
 FT DOMAIN 3384 3469 IG-LIKE C2-TYPE 21.
 FT DOMAIN 3472 3572 IG-LIKE C2-TYPE 22.
 FT DOMAIN 3580 3667 IG-LIKE C2-TYPE 23.
 FT DOMAIN 3686 3777 IG-LIKE C2-TYPE 24.
 FT DOMAIN 3817 3908 IG-LIKE C2-TYPE 25.
 FT DOMAIN 3920 4009 IG-LIKE C2-TYPE 26.
 FT DOMAIN 4018 4106 IG-LIKE C2-TYPE 27.
 FT DOMAIN 4109 4201 IG-LIKE C2-TYPE 28.
 FT DOMAIN 4212 4297 IG-LIKE C2-TYPE 29.
 FT DOMAIN 4302 4387 IG-LIKE C2-TYPE 30.
 FT DOMAIN 4400 4485 IG-LIKE C2-TYPE 31.
 FT DOMAIN 4489 4580 IG-LIKE C2-TYPE 32.
 FT DOMAIN 4588 4678 IG-LIKE C2-TYPE 33.
 FT DOMAIN 4681 4771 IG-LIKE C2-TYPE 34.
 FT DOMAIN 4873 4961 IG-LIKE C2-TYPE 35.
 FT DOMAIN 4965 5057 IG-LIKE C2-TYPE 36.
 FT DOMAIN 5067 5160 IG-LIKE C2-TYPE 37.
 FT DOMAIN 5171 5260 IG-LIKE C2-TYPE 38.
 FT DOMAIN 5277 5366 IG-LIKE C2-TYPE 39.
 FT DOMAIN 5383 5472 IG-LIKE C2-TYPE 40.
 FT DOMAIN 5487 5578 IG-LIKE C2-TYPE 41.
 FT DOMAIN 5595 5685 IG-LIKE C2-TYPE 42.
 FT DOMAIN 5701 5790 IG-LIKE C2-TYPE 43.
 FT DOMAIN 5815 5904 IG-LIKE C2-TYPE 44.
 FT DOMAIN 5925 6014 IG-LIKE C2-TYPE 45.
 FT DOMAIN 6038 6130 IG-LIKE C2-TYPE 46.
 FT DOMAIN 6150 6239 IG-LIKE C2-TYPE 47.
 FT DOMAIN 6275 6368 FIBRONECTIN TYPE-III.
 FT DOMAIN 6413 6502 IG-LIKE C2-TYPE 48.
 FT DOMAIN 6507 6596 IG-LIKE C2-TYPE 49.
 FT DISULFID 568 621 POTENTIAL.
 FT DISULFID 2308 2975 POTENTIAL.
 FT DISULFID 3015 3065 POTENTIAL.
 FT DISULFID 3707 3759 POTENTIAL.
 FT DISULFID 3826 3890 POTENTIAL.
 FT DISULFID 5092 5157 POTENTIAL.
 FT DISULFID 5298 5350 POTENTIAL.
 FT DISULFID 5508 5560 POTENTIAL.
 FT DISULFID 5616 5669 POTENTIAL.

FT DISULFID 5722 5764 POTENTIAL.
 FT DISULFID 5836 5901 POTENTIAL.
 FT DISULFID 5946 5998 POTENTIAL.
 FT DISULFID 6036 6171 POTENTIAL.
 FT DISULFID 6421 6486 POTENTIAL.
 FT CONFLICT 2137 2137 A -> P (IN REF. 1).
 FT CONFLICT 2245 2247 A -> P (IN REF. 1).
 FT CONFLICT 2258 2258 A -> P (IN REF. 1).
 FT CONFLICT 2284 2284 E -> G (IN REF. 1).
 FT CONFLICT 2297 2297 M -> I (IN REF. 1).
 FT CONFLICT 3531 3531 A -> G (IN REF. 1).
 FT CONFLICT 3884 3888 DAGEY -> RRRRI (IN REF. 1).
 FT CONFLICT 3929 3929 A -> V (IN REF. 1).
 FT CONFLICT 5134 5134 A -> P (IN REF. 1).
 FT CONFLICT 5145 5145 T -> S (IN REF. 1).
 FT CONFLICT 5185 5185 G -> A (IN REF. 1).
 FT CONFLICT 5199 5199 K -> N (IN REF. 1).
 FT CONFLICT 5202 5202 L -> F (IN REF. 1).
 FT CONFLICT 5213 5213 F -> L (IN REF. 1).
 FT CONFLICT 6178 6178 A -> G (IN REF. 1).
 FT CONFLICT 6268 6268 K -> E (IN REF. 1).
 SQ SEQUENCE 6632 AA; 731665 MW; 2623D3EDD62960B89 CRC64;

Query Match 2.6%; Score 8; DB 1; Length 6632;
 Best Local Similarity 100.0%; Pred. No. 1e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 65 WLLNGQPL 72
 |||||
 DB 2205 WLLNGQPL 2212

RESULT 11
 NUGM ALBTU STANDARD; PRT; 96 AA.
 AC Q08084;
 DT 01-NOV-1995 (Rel. 32, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 01-FEB-1996 (Rel. 33, Last annotation update)
 DE NADH-ubiquinone oxidoreductase chain 6 (EC 1.6.5.3) (Fragment).
 GN ND6.
 OS Albinaria turrita (Door snail).
 OG Mitochondrion.
 OC Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
 OC Sigmurethra; Clausiliidae; Clausiliidae; Alopinae; Albinaria.
 OC NCBI_TaxID=27820;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=94275981; PubMed=8007005;
 RA Lecanidou R., Douris V., Rodakis G.C.;
 RT "Novel features of metazoan mtDNA revealed from sequence analysis of
 three mitochondrial DNA segments of the land snail Albinaria turrita
 (Gastropoda: Clausiliidae).";
 RL J. Mol. Evol. 38:369-382(1994).
 CC -!- CATALYTIC ACTIVITY: NADH + ubiquinone = NAD(+) + ubiquinol.
 CC -----
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 or send an email to license@isb-sib.ch).
 CC -----
 CC EMBL; X71394; CAA50516.1; -.
 DR PIR; S33145; S33145.
 KW Oxidoreductase; NAD; Ubiquinone; Mitochondrion.
 FT NON_TER 96
 SQ SEQUENCE 96 AA; 10896 MW; A1732AACCA4FADA4F CRC64;

Query Match 2.3%; Score 7; DB 1; Length 96;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC	Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
CC	Bovidae; Bovinae; Bos.
CC	NCBI_TaxID=9913;
CC	[1]
CC	SEQUENCE FROM N.A.
CC	TISSUE=Endometrium;
CC	Austin K.J., Perry D.J., Hansen T.R.;
CC	"The bovine granulocyte chemotactic protein-2 cDNA.";
CC	Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.
CC	[2]
CC	SEQUENCE OF 37-111.
CC	TISSUE=Kidney;
CC	MEDLINE=94001982; PubMed=8399143;
CC	Proost P., Wuyts A., Conings R., Lenaerts J.-P., Billiau A.,
CC	Opdenakker G., van Damme J.;
CC	"Human and bovine granulocyte chemotactic protein-2: complete amino
CC	acid sequence and functional characterization as chemokines.";
CC	Biochemistry 32:10170-10177(1993).
CC	[1]
CC	FUNCTION: Chemotactic for neutrophil granulocytes.
CC	SUBCELLULAR LOCATION: Secreted.
CC	DEVELOPMENTAL STAGE: Expressed in high amounts from endometria of
CC	day 18-21 pregnant cows.
CC	INDUCTION: By interferon tau and phorbol ester.
CC	SIMILARITY: Belongs to the interleukin alpha (chemokine Cx3c)
CC	family.
CC	-----
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CC	use by non-profit institutions as long as its content is in no way
CC	modified and this statement is not removed. Usage by and for commercial
CC	entities requires a license agreement (See http://www.isb-sib.ch/announcement/
CC	or send an email to license@isb-sib.ch).
CC	-----
CC	EMBL; AF149249; AAC35212.1; -
CC	HSSP; P02775; INAP.
CC	InterPro; IPR001811; Chemokine_IL8.
CC	InterPro; IPR001089; CX3c_chmkine_sm1.
CC	Pfam; PF00048; IL8; 1.
CC	PRINTS; PR00437; SWALLCYTKCX.
CC	SMART; SM00199; SCY; 1.
CC	PROSITE; PS00471; SMALL_CYTOKINES_CXC; 1.
CC	Cytokine; Chemotaxis; Heparin-binding; Signal.
CC	FT SIGNAL 1 36
CC	FT CHAIN 37 112 SMALL INDUCIBLE CYTOKINE B6.
CC	FT DISULFID 48 74 BY SIMILARITY.
CC	FT DISULFID 50 90 BY SIMILARITY.
CC	FT VARIANT 37 38 MISSING (N-TERMINAL PROCESSING VARIANT).
CC	FT VARIANT 37 43 MISSING (N-TERMINAL PROCESSING VARIANT).
CC	FT VARIANT 37 44 MISSING (N-TERMINAL PROCESSING VARIANT).
CC	FT VARIANT 37 45 MISSING (N-TERMINAL PROCESSING VARIANT).
CC	SEQUENCE 112 AA; 11589 MW; 6ED8148B96A7C082 CRC64;
CC	-----
CC	Query Match 2.3%; Score 7; DB 1; Length 112;
CC	Best Local Similarity 100.0%; Pred. No. 25;
CC	Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC	-----
CC	QY 218 SRAARVS 224
CC	
CC	6 SRAARVS 12
CC	Db
CC	-----
CC	RESULT 14
CC	RMP3 MOUSE
CC	ID RMP3 MOUSE STANDARD; PRT; 147 AA.
CC	AC Q9WUP1;
CC	DT 28-FEB-2003 (Rel. 41, Created)
CC	DT 28-FEB-2003 (Rel. 41, Last sequence update)
CC	DT 10-OCT-2003 (Rel. 42, Last annotation update)
CC	DE Receptor activity-modifying protein 3 precursor.
CC	GN RAMP3.
CC	OS Mus musculus (Mouse).
CC	-----
CC	17 LLLLLLIM 23
CC	
CC	27 LLLLLLIM 33
CC	Db
CC	-----
CC	RESULT 12
CC	APC2_CAVPO
CC	APC2_CAVPO STANDARD; PRT; 100 AA.
CC	P27916;
CC	01-AUG-1992 (Rel. 23, Created)
CC	01-AUG-1992 (Rel. 23, Last sequence update)
CC	15-MAR-2004 (Rel. 43, Last annotation update)
CC	DE Apolipoprotein C-II precursor (Apo-CII).
CC	APC2.
CC	Cavia porcellus (Guinea pig).
CC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC	Mammalia; Eutheria; Rodentia; Hystricognathi; Caviidae; Cavia.
CC	NCBI_TaxID=10141;
CC	[1]
CC	SEQUENCE FROM N.A.
CC	MEDLINE=91154195; PubMed=1999402;
CC	Andersson Y., Thelander L., Bengtsson-Olivera G.;
CC	"Demonstration of apolipoprotein CII in guinea pigs. Functional
CC	characteristics, cDNA sequence, and tissue expression.";
CC	J. Biol. Chem. 266:4074-4080(1991).
CC	[1]
CC	FUNCTION: Component of the very low density lipoprotein (VLDL)
CC	fraction in plasma, and is an activator of several triacylglycerol
CC	lipases. The association of APC2 with plasma chylomicrons,
CC	VLDL, and HDL is reversible, a function of the secretion and
CC	catabolism of triglyceride-rich lipoproteins, and changes rapidly.
CC	SUBCELLULAR LOCATION: Secreted.
CC	TISSUE SPECIFICITY: Secreted.
CC	SIMILARITY: Belongs to the apolipoprotein C2 family.
CC	-----
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CC	or send an email to license@isb-sib.ch).
CC	-----
CC	EMBL; M59913; AAA37031.1; -
CC	PIR; A38685; A38685.
CC	InterPro; IPR008019; Apo-CII.
CC	Pfam; PF05355; Apo-CII; 1.
CC	Chylomicron; VLDL; Transport; Lipid transport; Lipid degradation;
CC	Signal.
CC	FT SIGNAL 1 25
CC	FT CHAIN 26 100 APOLIPOPROTEIN C-II.
CC	SEQUENCE 100 AA; 10984 MW; BECF8B52FC9E9BD CRC64;
CC	-----
CC	Query Match 2.3%; Score 7; DB 1; Length 100;
CC	Best Local Similarity 100.0%; Pred. No. 22;
CC	Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC	-----
CC	QY 15 LPLLLLL 21
CC	
CC	13 LPLLLLL 19
CC	Db
CC	-----
CC	RESULT 13
CC	S

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OX Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 RN NCBI_TaxID=10090;
 [1]
 RP SEQUENCE FROM N.A.
 RA Derst C., Preisig-Mueller R., Gerhard J., Daut J.;
 RT "Cloning and sequencing of mouse CGRP/adrenomedullin receptor
 subunits";
 RL Submitted (APR-1999) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Husmann K., Sexton P.M., Fischer J.A., Born W.;
 RT "Mouse receptor activity modifying proteins 1, -2 and -3: amino acid
 sequence, expression and function";
 RL Submitted (OCT-1999) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6; TISSUE=Lung;
 RA Ono Y., Okano I., Kojima M., Okada K., Kangawa K.;
 RT "cDNA cloning of mouse CRLR and RAMPs";
 RL Submitted (DEC-1999) to the EMBL/GenBank/DBJ databases.
 RN [4]
 RP SEQUENCE FROM N.A.
 TISSUE=Eye;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalls D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 CC -!- FUNCTION: Required to transport calcitonin-receptor-like receptor
 (CRLR) to the plasma membrane (By similarity).
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein (By similarity).
 CC -!- SIMILARITY: Belongs to the RAMP family.
 CC
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 CC
 CC EMBL; AF146524; AAD35020.1; -
 CC EMBL; AJ250491; CAB59513.1; -
 CC EMBL; AF209907; AAF21039.1; -
 CC EMBL; BC024765; AAH24765.1; -
 CC MGD; WGI-1860292; RAMP3.
 CC GO; GO:0015027; F:coreceptor, soluble ligand activity; IDA.
 CC GO; GO:0007186; P:G-protein coupled receptor protein signalin. .; IPI.
 CC InterPro; IPR006985; RAMP.
 CC Pfam; PF04901; RAMP; 1.
 CC Signal; Transmembrane; Transport; Receptor.
 CC FT CHAIN 1 22 POTENTIAL.
 CC FT SIGNAL 23 147 RECEPTOR ACTIVITY-MODIFYING PROTEIN 3.
 CC FT DOMAIN 23 117 EXTRACELLULAR (POTENTIAL).
 CC FT TRANSMEM 118 137 POTENTIAL.
 CC FT DOMAIN 138 147 CYTOPLASMIC (POTENTIAL).

SO SEQUENCE 147 AA; 16779 MW; 359EE741034C34E8 CRC64;
 Query Match 2.3%; Score 7; DB 1; Length 147;
 Best Local Similarity 100.0%; Pred. No. 32;
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 15 LPILLLL 21
 DB 11 LPILLLL 17
 RESULT 15
 RMP3 HUMAN
 ID_RMP3_HUMAN STANDARD; PRT; 148 AA.
 AC 060896;
 DT 16-OCT-2001 (Rel. 40, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 15-MAR-2004 (Rel. 43, Last annotation update)
 DE Receptor activity-modifying protein 3 precursor (CRLR activity-
 DE modifying-protein 3) (Calcitonin-receptor-like receptor-activity-
 DE modifying-protein 3).
 GN RAMP3.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A., FUNCTION, AND TISSUE SPECIFICITY.
 RC TISSUE=Brain;
 RX MEDLINE=98282119; PubMed=9620797;
 RA McLatchie L.M., Fraser N.J., Main M.J., Wise A., Brown J.,
 RA Thompson N., Solari R., Lee M.G., Foord S.M.;
 RT "RAMPs regulate the transport and ligand specificity of the
 calcitonin-receptor-like receptor";
 RL Nature 393:333-339 (1998).
 RN [2]
 RP SEQUENCE FROM N.A.
 RA Kopatz S.A., Aronstam R.S., Sharma S.V.;
 RT "cDNA clones of human proteins involved in signal transduction
 sequenced by the Guthrie cDNA resource center (www.cdna.org).";
 RL Submitted (MAR-2003) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A.
 TISSUE=Lung;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalls D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
 RN [4]
 RP SEQUENCE OF 21-148 FROM N.A.
 RA Walker C., Bauer C., Smith R.;
 RL Submitted (JAN-1999) to the EMBL/GenBank/DBJ databases.
 CC -!- FUNCTION: Required to transport calcitonin-receptor-like receptor
 (CRLR) to the plasma membrane.
 CC -!- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -!- TISSUE SPECIFICITY: Strongly expressed in lung, breast, immune

```

CC      system and fetal tissues.
CC      -!- SIMILARITY: Belongs to the RAMP family.
CC      -----
CC      This SWISS-PROT entry is copyright. It is produced through a collaboration
CC      between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC      the European Bioinformatics Institute. There are no restrictions on its
CC      use by non-profit institutions as long as its content is in no way
CC      modified and this statement is not removed. Usage by and for commercial
CC      entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC      or send an email to license@isb-sib.ch).
CC      -----
CC      EMBL; AJ001016; CAA0474.1; -.
CC      EMBL; AY265459; AAP23300.1; -.
CC      EMBL; BC022304; AAH22304.1; -.
CC      EMBL; AC004844; -; NOT_ANNOTATED_CDS.
CC      Genew; HGNC:9845; RAMP3.
CC      MIN; 605155; -.
CC      GO; GO:0005887; C:integral to plasma membrane; TAS.
CC      GO; GO:0005764; C:lysosome; TAS.
CC      GO; GO:0015031; P:protein transport; TAS.
CC      GO; GO:0006898; P:receptor mediated endocytosis; TAS.
CC      InterPro; IPR006985; RAMP.
CC      Pfam; PF04901; RAMP; 1.
CC      Signal; Transmembrane; Transport; Receptor.
KW      SIGNAL 1 23
FT      CHAIN 24 148 RECEPTOR ACTIVITY-MODIFYING PROTEIN 3.
FT      DOMAIN 24 118 EXTRACELLULAR (POTENTIAL).
FT      TRANSMEM 119 138 POTENTIAL.
FT      DOMAIN 139 148 CYTOPLASMIC (POTENTIAL).
SQ      SEQUENCE 148 AA; 16518 MW; EEE312496EF513C CRC64;

Query Match      2.3%; Score 7; DB 1; Length 148;
Best Local Similarity 100.0%; Pred.No. 32;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      15 LPLLLLL 21
Db      |||||
        12 LPLLLLL 18

```

Search completed: February 27, 2004, 19:37:56
Job time : 23 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: February 29, 2004, 08:16:48 ; Search time 69 Seconds
(without alignments)
1385.536 Million cell updates/sec

Title: US-10-047-021-86

Perfect score: 303

Sequence: 1 MGSGDLSLLGGSGSLPLLLL.....SGPRLPREAFELGQRRTG 303

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 1017041 seqs, 315518202 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

SPTREMBL_25:**

- 1: sp_archaea:**
- 2: sp_bacteria:**
- 3: sp_fungi:**
- 4: sp_human:**
- 5: sp_invertebrate:**
- 6: sp_mammal:**
- 7: sp_mhc:**
- 8: sp_organelle:**
- 9: sp_phage:**
- 10: sp_plant:**
- 11: sp_rodent:**
- 12: sp_virus:**
- 13: sp_vertebrate:**
- 14: sp_unclassified:**
- 15: sp_rvirus:**
- 16: sp_bacteriap:**
- 17: sp_archaeap:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	148	48.8	1007	4 Q8WZ75	Q8WZ75 homo sapien
2	120	39.6	792	4 Q96JY6	Q96JY6 homo sapien
3	69	22.8	702	4 Q8TEG1	Q8TEG1 homo sapien
4	27	8.9	961	11 Q8OW87	Q8OW87 rattus norv
5	27	8.9	1016	11 Q8C310	Q8C310 mus musculus
6	10	3.3	129	11 Q8VBY7	Q8VBY7 mus musculus
7	10	3.3	424	11 Q8C8W0	Q8C8W0 mus musculus
8	10	3.3	1150	11 Q8BS24	Q8BS24 mus musculus
9	10	3.3	1209	11 P70232	P70232 mus musculus
10	9	3.0	362	9 Q8LTT9	Q8LTT9 bacterioph
11	8	2.6	72	16 Q8YGC5	Q8YGC5 bruceella me
12	8	2.6	123	4 Q86RL5	Q86RL5 homo sapien
13	8	2.6	189	4 Q8WU39	Q8WU39 homo sapien
14	8	2.6	205	6 Q7YRG8	Q7YRG8 cebus albif
15	8	2.6	205	11 Q810Z2	Q810Z2 mus musculus
16	8	2.6	216	11 Q9CST8	Q9CST8 mus musculus

ALIGNMENTS

RESULT 1

Q8WZ75 ID Q8WZ75 PRELIMINARY; PRT; 1007 AA.

AC Q8WZ75;
DT 01-MAR-2002 (TREMBLrel. 20, Created)
DT 01-MAR-2002 (TREMBLrel. 20, Last sequence update)
DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
DE Magic roundabout.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20530916; PubMed=11076864;
RA Huminiecki L., Bicknell R.;
RT "In silico cloning of novel endothelial-specific genes."
RL Genome Res. 10:1796-1806 (2000).
RN [2]
RP SEQUENCE FROM N.A.
RA Huminiecki L., Bicknell R.;
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AP361473; AAL3867.1; -;
DR Genew; HGNC:17985; ROBO4.
DR InterPro; IPR003961; FN.III.
DR InterPro; IPR008957; FN.III-like.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PFC0041; fn3; 2.
DR Pfam; PFC0047; ig1; 2.
DR SMART; SM00060; FN3; 2.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PSS0835; IG_LIKE; 2.
KW Immunoglobulin domain.
SQ SEQUENCE 1007 AA; 107457 MW; E43F246C59BB1415 CRC64;

Query Match 48.8%; Score 148; DB 4; Length 1007;
Best local Similarity 100.0%; Pred.No. 8.3e-140;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 55 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDLGVYTC 114
DB 55 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDLGVYTC 114
QY 115 EASNRLGTAVERGARGLSVAVLRDFQIQPRDMVAVGGEQFTLECGPPWGHPEPTVSWWKD 174
DB 115 EASNRLGTAVERGARGLSVAVLRDFQIQPRDMVAVGGEQFTLECGPPWGHPEPTVSWWKD 174
QY 175 GKPLALQPGRHTVSGSLMARAKSDE 202
DB 175 GKPLALQPGRHTVSGSLMARAKSDE 202

RESULT 2
Q96JV6
ID Q96JV6 PRELIMINARY; PRT; 792 AA.
AC Q96JV6:
DT 01-DEC-2001 (TRENBLrel. 19, Created)
DT 01-DEC-2001 (TRENBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Hypothetical protein FLJ14946.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN 1
RP TISSUE=Placenta;
RA Isoqai T., Ota T., Hayashi K., Sugiyama T., Otsuki T., Suzuki Y.,
RA Nishikawa T., Nagai K., Sugano S., Takahashi-Fujii A., Hara H.,
RA Tanase T., Nomura Y., Togiya S., Konai F., Hara R., Takeuchi K.,
RA Arica M., Nabekura T., Ishii S., Kawai Y., Saito K., Yamamoto J.,
RA Wakamatsu A., Nakamura Y., Nagahari K., Masuho Y., Oshima A.;
RT "NEDO human cDNA sequencing project.";
RL Submitted (MAY-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK027852; BAB55411.1; -.
DR InterPro; IPR003961; FN_III.
DR InterPro; IPR008957; FN_III-like.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00041; fn3; 2.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00060; FN3; 2.
DR PROSITE; PS00835; IG_LIKE; 2.
KW Hypothetical protein; Immunoglobulin domain.
SQ SEQUENCE 792 AA; 85419 MW; FC6DC05275B7B234 CRC64;

Query Match 39.6%; Score 120; DB 4; Length 792;
Best Local Similarity 100.0%; Pred. No. 1.le-111;
Matches 120; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 55 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDLGVYTC 114
DB 55 ASGQPPPTIRLLNGQPLSMVPPDPHLLPDGTLILLQPPARGHAHDGQALSTDLGVYTC 114
QY 115 EASNRLGTAVERGARGLSVAVLRDFQIQPRDMVAVGGEQFTLECGPPWGHPEPTVSWWKD 174
DB 115 EASNRLGTAVERGARGLSVAVLRDFQIQPRDMVAVGGEQFTLECGPPWGHPEPTVSWWKD 174

RESULT 3
Q8TEG1
ID Q8TEG1 PRELIMINARY; PRT; 702 AA.
AC Q8TEG1:
DT 01-JUN-2002 (TRENBLrel. 21, Created)
DT 01-JUN-2002 (TRENBLrel. 21, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE FLJ00236 protein (Fragment).
GN FLJ00236.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

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OC Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN 1
RP TISSUE=Spleen;
RA Jikuya H., Takano J., Nomura N., Kikuno R., Nagase T., Ohara O.;
RT "The nucleotide sequence of a long cDNA clone isolated from human
RT spleen.";
RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AK074163; BAB84989.1; -.
DR InterPro; IPR003961; FN_III.
DR InterPro; IPR008957; FN_III-like.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00041; fn3; 2.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00060; FN3; 2.
DR PROSITE; PS00835; IG_LIKE; 1.
KW Immunoglobulin domain.
FT NON TER 1
SQ SEQUENCE 702 AA; 75340 MW; D668FEE4BCAFDC6 CRC64;

Query Match 22.8%; Score 69; DB 4; Length 702;
Best Local Similarity 100.0%; Pred. No. 2.2e-60;
Matches 69; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 134 VLREDFQIQPRDMVAVGGEQFTLECGPPWGHPEPTVSWWKDGLALQPGRHTVSGSLL 193
DB 24 VLREDFQIQPRDMVAVGGEQFTLECGPPWGHPEPTVSWWKDGLALQPGRHTVSGSLL 83
QY 194 MARAEKSDE 202
DB 84 MARAEKSDE 92

RESULT 4
Q80W87
ID Q80W87 PRELIMINARY; PRT; 961 AA.
AC Q80W87:
DT 01-JUN-2003 (TRENBLrel. 24, Created)
DT 01-JUN-2003 (TRENBLrel. 24, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE ROBO4.
GN ROBO4.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN 1
RP SEQUENCE FROM N.A.
RA Roberts K.G., Stewart L.M.;
RL Submitted (APR-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY277633; AAP32918.1; -.
DR GO; GO:0016020; C:membrane; IEA.
DR GO; GO:0005215; P:transporter activity; IEA.
DR GO; GO:0006810; P:transport; IEA.
DR InterPro; IPR003961; FN_III.
DR InterPro; IPR008957; FN_III-like.
DR InterPro; IPR003599; IG-like.
DR InterPro; IPR007110; IG_c2.
DR InterPro; IPR003598; IG_c2.
DR Pfam; PF00041; fn3; 2.
DR Pfam; PF00047; ig; 2.
DR SMART; SM00060; FN3; 2.
DR SMART; SM00409; IG; 2.
DR SMART; SM00408; IGC2; 2.
DR PROSITE; PS00835; IG_LIKE; 2.
DR PROSITE; PS00217; SUGAR_TRANSPORT 2; 1.
SQ SEQUENCE 961 AA; 102579 MW; 1D21E7D4B611899F CRC64;

Query Match 8.9%; Score 27; DB 11; Length 961;

```

Best Local Similarity 100.0%; Pred. NO. 6e-18; Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 LGVYTCEASNRLGTAVSRGARLSVAVL 135
|
Db 120 LGVYTCEASNRLGTAVSRGARLSVAVL 146

RESULT 5

Q8C310 PRELIMINARY; PRT; 1016 AA.

ID Q8C310 AC Q8C310;
DT 01-MAR-2003 (T-EMBLrel. 23, Created)
DT 01-MAR-2003 (T-EMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (T-EMBLrel. 25, Last annotation update)
DE Similar to MAGIC ROUNDABOUT.
GN ROBO4.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
NCBI_TaxID=10090;
RN [1]

SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Lung;
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium,
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
DR ENBL; AK087355; BAC39850.1; -.
DR PIR; PT0635; PT0696.
DR PIR; PT0649; PT0712.
DR MGD; MGI:1921394; Robo4.
DR InterPro; IPR003961; FN.III.
DR InterPro; IFR008957; FN_III-like.
DR InterPro; IPR003599; IG.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG.C2.
DR Pfam; PF00041; fn3; 2.
DR Pfam; PF00047; ig; 2.
DR SMART; SMO0060; FN3; 2.
DR SMART; SMO0409; IG; 2.
DR SMART; SMO0408; IGc2; 2.
DR PROSITE; PSS0835; IG_LIKE; 2.
SQ SEQUENCE 1016 AA; DE70683C63AECDBE CRC64;

Query Match 8.9%; Score 27; DB 11; Length 1016;
Best Local Similarity 100.0%; Pred. No. 6.3e-18; Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 LGVYTCEASNRLGTAVSRGARLSVAVL 135
|
Db 120 LGVYTCEASNRLGTAVSRGARLSVAVL 146

RESULT 6

Q8VBV7 PRELIMINARY; PRT; 129 AA.

ID Q8VBV7 AC Q8VBV7;
DT 01-MAR-2002 (TrEMBLrel. 20, Created)
DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Close homolog of LI precursor (Fragment).
GN Cbl1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
NCBI_TaxID=10090;
RN [1]

SEQUENCE FROM N.A.
RP STRAIN=129Sv;
RA Montag-Sallaz M.;

RT "vice deficient for the close homolog of L1 (Chl1) display NCAM180
RT mRNA upregulation, abnormal hippocampal mossy fiber connectivity, and
RT altered exploratory behaviour."
RL Submitted (MAY-2001) to the EMBL/GenBank/DBJ databases.
DR ENBL; AJ319655; CAC88131.1; -.
DR ENBL; AJ319656; CAC88131.1; JOINED.
DR ENBL; AJ319657; CAC88131.1; JOINED.
DR InterPro; IPR007110; IG-like.
DR PROSITE; PS50835; IG_LIKE; 1.
KW Signal.
FT SIGNAL 1 24 POTENTIAL.
FT CHAIN 25 >30 POTENTIAL.
FT NON TER 129 129
SQ SEQUENCE 129 AA; 14435 MW; FBF1A5436F9371D2 CRC64;

Query Match 3.3%; Score 10; DB 11; Length 129;
Best Local Similarity 100.0%; Pred.No. 0.13; Indels 0; Gaps
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps

QY 116 ASNRLGTAVS 125
|||||
DB 111 ASNRLGTAVS 120

RESULT 7
QSC6W0 QSC6W0 PRELIMINARY; PRT; 424 AA.
AC QSC6W0;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE Close homolog of L1 (fragment).
GN CHL1.
GC Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Head;
RX MEDLINE=22354683; PubMed=12466851;
RA THE PANTOM Consortium,
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RL Nature 420:563-573 (2002)."
DR ENBL; AK053039; BAC35247.1; -.
DR MGD; MGI:1098266; Ch11.
DR GO; GO:0007411; P:axon guidance; IMP.
DR GO; GO:0007610; P:behavior; IMP.
DR InterPro; IPR003599; IG-like.
DR InterPro; IPR007110; IG-like.
DR Pfam; PF00047; IG; 4.
DR SMART; SM00409; IGC; 4.
DR SMART; SM00408; IGC2; 3.
DR PROSITE; PS50835; IG_LIKE; 4.
FT NON TER 424 424
SQ SEQUENCE 424 AA; 47566 MW; C02AC0B3EF5B5805C CRC64;

Query Match 3.3%; Score 10; DB 11; Length 424;
Best Local Similarity 100.0%; Pred.No. 0.36; Indels 0; Gaps
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps

Qy 116 ASNRLGTAVS 125
 |||||
 Db 111 ASNRLGTAVS 120

RESULT 8
 Q8BS24
 ID Q8BS24
 AC Q8BS24;
 PRELIMINARY;
 PRT; 1150 AA.

DT 01-MAR-2003 (TREMBLrel. 23, Created)
 DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)
 DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
 DE Close homolog of L1.
 GN CHL1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Aorta, and Vein;
 RX MEDLINE=22354683; PubMed=12466851;
 RA The FANTOM Consortium,
 RA the RIKEN Genome Exploration Research Group Phase I & II Team;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 RT 60,770 full-length cDNAs."
 RL Nature 420:563-573(2002).
 DR EMBL; AK040765; BAC30699.1; -.
 DR MGD; MGI:1098266; Chl1.
 DR GO; GO:007411; P:axon guidance; IMP.
 DR GO; GO:0007610; P:behavior; IMP.
 DR InterPro; IPR003961; FN III.
 DR InterPro; IPR008957; FN_III-like.
 DR InterPro; IPR003599; IG.
 DR InterPro; IPR007110; IG-like.
 DR InterPro; IPR003598; IG_c2.
 DR Pfam; PF00041; fn3; 4.
 DR Pfam; PF00047; ig; 6.
 DR SMART; SM00060; FN3; 4.
 DR SMART; SM00409; IG; 5.
 DR SMART; SM00408; IGC2; 3.
 DR PROSITE; PS00835; IG_LIKE; 6.
 SQ SEQUENCE 1150 AA; 129000 MW; 6C96C082529C7A99 CRC64;

 Query Match 3.3%; Score 10; DB 11; Length 1150;
 Best Local Similarity 100.0%; Pred. No. 0.95;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

 QY 116 ASNRLGTAVS 125
 DB 111 ASNRLGTAVS 120
 |||||
 |||||

 RESULT 9
 ID F70232 PRELIMINARY; PRT; 1209 AA.
 AC F70232;
 DT 01-FEB-1997 (TREMBLrel. 02, Created)
 DT 01-FEB-1997 (TREMBLrel. 02, Last sequence update)
 DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
 DE L1-like protein.
 GN CHL1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Brain;
 RA Holm J., Hillenbrand R., Steuber V., Bartsch U., Moos M., Luebbert H.,
 RA Montag D., Schachner M.;
 RT "Structural features of a close homolog of L1 (CHL1) in the mouse: a
 RT novel member of the L1 family of neural recognition molecules.";
 RL Submitted (DSC-1995) to the EMBL/GenBank/DBJ databases.
 DR EMBL; X94310; C3A63972.1; -.
 DR PIR; T42718; T42718.
 DR HSP; P20241; 1CFB.
 DR MGD; MGI:1098266; Chl1.
 DR GO; GO:007411; P:axon guidance; IMP.
 DR GO; GO:0007610; P:behavior; IMP.
 DR InterPro; IPR003961; FN III.
 DR InterPro; IPR008957; FN_III-like.

DR InterPro; IPR007110; IG-like.
 DR InterPro; IPR003598; IG_c2.
 DR Pfam; PF00041; fn3; 4.
 DR Pfam; PF00047; ig; 6.
 DR SMART; SM00060; FN3; 4.
 DR SMART; SM00408; IGC2; 3.
 DR PROSITE; PS00835; IG_LIKE; 6.
 KW Immunoglobulin domain.
 SQ SEQUENCE 1209 AA; 134929 MW; 331F5849AE776226 CRC64;

 Query Match 3.3%; Score 10; DB 11; Length 1209;
 Best Local Similarity 100.0%; Pred. No. 0.95;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

 QY 116 ASNRLGTAVS 125
 DB 111 ASNRLGTAVS 120
 |||||
 |||||

 RESULT 10
 ID Q8LTT9 PRELIMINARY; PRT; 362 AA.
 AC Q8LTT9;
 DT 01-OCT-2002 (TREMBLrel. 22, Created)
 DT 01-OCT-2002 (TREMBLrel. 22, Last sequence update)
 DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
 DE DNA primase (Fragment).
 DE Bacteriophage P4.
 OS Viruses; dsDNA viruses, no RNA stage; Caudovirales; Myoviridae.
 NCBI_TaxID=10680;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=3937;
 RA Franza T., Michaud-Soret I., Fiqueret P., Expert D.;
 RT "Coupling of iron assimilation and pectinolysis in Erwinia
 RT chrysanthemi";
 RL Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF509493; AAM28906.1; -.
 DR GO; GO:0005743; C:mitochondrial inner membrane; IEA.
 DR GO; GO:0005488; P:binding; IEA.
 DR GO; GO:0006810; P:transport; IEA.
 DR InterPro; IPR001993; Mitoch carrier.
 DR PROSITE; PS00215; MITOCH_CARRIER; 1.
 FT NON_TER 1
 FT NON_TER 362
 SQ SEQUENCE 362 AA; 38936 MW; CF20E6BDAC873710 CRC64;

 Query Match 3.0%; Score 9; DB 9; Length 362;
 Best Local Similarity 100.0%; Pred. No. 3.3;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

 QY 82 LLPDGTLL 90
 DB 106 LLPDGTLL 114
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 |||||

 RESULT 11
 ID Q8YGC5 PRELIMINARY; PRT; 72 AA.
 AC Q8YGC5;
 DT 01-MAR-2002 (TREMBLrel. 20, Created)
 DT 01-MAR-2002 (TREMBLrel. 20, Last sequence update)
 DT 01-JUN-2003 (TREMBLrel. 24, Last annotation update)
 DE Hypothetical membrane associated protein BMEI1234.
 GN BMEI1234.
 OS Brucella melitensis.
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
 OC Brucellaceae; Brucella.
 NCBI_TaxID=29459;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=16M / ATCC 23456 / Biotype 1;
 RX MEDLINE=20020109; PubMed=11756688;

RA DelVecchio V.G., Kapatral V., Redkar R.J., Patra G., Mijer C., Los T., Ivanova N., Anderson I., Bhattacharya A., Lykidis A., Reznik G., Jablonki L., Larsen N., D'Souza M., Bernal A., Mazur M., Goltzman E., Selkov E., Elzer P.H., Hagius S., O'Callaghan D., Letesson J.-J., Haselkorn R., Kyripides N., Overbeek R., "The genome sequence of the facultative intracellular pathogen *Brucella melitensis*."; Proc. Natl. Acad. Sci. U.S.A. 99:443-448(2002).
 DR EMBL; AE009562; AAL52415.1; -.
 DR PIR; AD3406.
 KW Hypothetical protein; Complete proteome.
 SQ SEQUENCE 72 AA; 8311 MW; D064085089A5AE04 CRC64;

Query Match 2.6%; Score 8; DB 16; Length 72;
 Best Local Similarity 100.0%; Pred. No. 7.6; 0; Indels 0; Gaps 0;
 Matches 8; Conservative 0; Mismatches 0;

Qy 13 GSPLPLLLL 20
 Db 44 GSPLPLLLL 51

RESULT 12
 Q96RL5 PRELIMINARY; PRT; 123 AA.
 AC Q96RL5; 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Prapoptotic caspase adaptor protein.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=2136986; PubMed=11350957;
 RA Bonfoco E., Li E., Kolbinger F., Cooper N.R.;
 RT "Characterization of a novel proapoptotic caspase-2- and caspase-9-binding protein.";
 RL J. Biol. Chem. 276:29242-29250(2001).
 DR EMBL; AF38109; AAK84085.1; -.
 SQ SEQUENCE 123 AA; 13066 MW; C21A354CE08A95CB CRC64;

Query Match 2.6%; Score 8; DB 4; Length 123;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 14 SLPLLLLL 21
 Db 4 SLPLLLLL 11

RESULT 13
 Q8WU39 PRELIMINARY; PRT; 189 AA.
 AC Q8WU39;
 DT 01-MAR-2002 (TrEMBLrel. 20, Created)
 DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Similar to RIKEN cDNA 2010001M09 gene.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Tonsil;
 RA Strauberg R.;
 RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC021275; AAL21275.1; -.
 DR InterPro; IPR000886; ER target S.
 DR PROSITE; PS00014; ER_TARGET; 1.

SQ SEQUENCE 189 AA; 20694 MW; C71AED212D3393D3 CRC64;
 Query Match 2.6%; Score 8; DB 4; Length 189;
 Best Local Similarity 100.0%; Pred. No. 19;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 14 SLPLLLLL 21
 Db 4 SLPLLLLL 11

RESULT 14
 Q7YRG8 PRELIMINARY; PRT; 205 AA.
 AC Q7YRG8;
 DT 01-OCT-2003 (TrEMBLrel. 25, Created)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE LOC122650.
 OS Cebus albifrons (White-fronted capuchin).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Platyrrhini; Cebidae; Cebinae; Cebus.
 OX NCBI_TaxID=9514;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Devor E.J., Moffat-Wilson K.A.;
 RT "LOC122650 on chromosome 14q11.2 is related to the RNase A superfamily and contains a unique amino-terminal pre-protein-like domain.";
 RL Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AY301198; AAO01508.1; -.
 SQ SEQUENCE 205 AA; 24294 MW; DBFC3217F7A070D0 CRC64;

Query Match 2.6%; Score 8; DB 6; Length 205;
 Best Local Similarity 100.0%; Pred. No. 20;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 14 SLPLLLLL 21
 Db 8 SLPLLLLL 15

RESULT 15
 Q810Z2 PRELIMINARY; PRT; 205 AA.
 AC Q810Z2;
 DT 01-JUN-2003 (TrEMBLrel. 24, Created)
 DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
 DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
 DE Collagenase-like B (Fragment).
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=129/SVJ;
 RA Brathwaite M., Waeltz P., Nagaraja R.;
 RT "Genomic Sequence Analysis in the Mouse t-complex Region.";
 RL Submitted (JAN-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AY211543; AAC37584.1; -.
 DR GO; GO:0005578; C:extracellular matrix; IEA.
 DR GO; GO:0004222; P:metalloendopeptidase activity; IEA.
 DR GO; GO:0006508; P:proteolysis and peptidolysis; IEA.
 DR InterPro; IPR006026; Peptidase M.
 DR InterPro; IPR001818; Pept M10A_M12B.
 DR Pfam; PF00413; Peptidase M10; 1.
 DR Pfam; PF03933; Peptidase M10_N; 1.
 DR PRINTS; PR00138; MATRIXIN.
 DR SMART; SM00235; ZMNC; 1.
 DR PROSITE; PS00546; CYSTEINE_SWITCH; 1.
 FT NON TER 205 205
 SQ SEQUENCE 205 AA; 23403 MW; DED1E974B9769643 CRC64;

Query Match 2.6%; Score 8; DB 11; Length 205;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 14 SLP L L L L L 21
| | | | |
Db 3 SLP L L L L L 10

Search completed: February 29, 2004, 08:19:08
Job time : 75 secs

29: gb_gss2:*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	202	66.7	826	14	CB994099	CB994099 AGENCOURT
2	202	66.7	860	14	CB996189	CB996189 AGENCOURT
3	202	66.7	885	14	CF994298	CF994298 AGENCOURT
4	182	60.1	803	14	CB997292	CB997292 AGENCOURT
5	176	58.1	688	14	CB961818	CB961818 AGENCOURT
6	176	58.1	798	14	CB961529	CB961529 AGENCOURT
7	173	57.1	558	9	AL602474	AL602474 DKFZ6860
8	148	48.8	1019	12	BM921911	BM921911 AGENCOURT
9	148	48.8	3758	11	EC039602	EC039602 Homo sapi
10	133	43.9	771	14	CB959649	CB959649 AGENCOURT
11	133	43.9	1230	12	BM906521	BM906521 AGENCOURT
12	131	43.2	941	13	BQ890126	BQ890126 AGENCOURT
13	126	41.6	1201	9	AL553360	AL553360 AGENCOURT
14	123	40.6	1028	14	CF994063	CF994063 AGENCOURT
15	110	36.3	797	14	CB961002	CB961002 AGENCOURT
16	109	36.0	502	13	EX474842	EX474842 DKFZp686M
17	107	35.3	610	12	BG745318	BG745318 602723637
18	97	32.0	532	13	EX475138	EX475138 DKFZp686O
19	93	30.7	729	12	BI762862	BI762862 603048384
20	88	29.0	501	13	EX474746	EX474746 DKFZp686B
21	85	28.1	1087	12	BM914311	BM914311 AGENCOURT
22	79	26.1	438	13	EX475177	EX475177 DKFZp686F
23	71	23.4	922	13	EX418142	EX418142 BX418142
24	70	23.1	424	13	EX475172	EX475172 DKFZp686E
25	70	23.1	426	13	EX492967	EX492967 DKFZp781F
26	70	23.1	526	14	CA394658	CA394658 c854c07.Y
27	63	20.8	344	9	AA577940	AA577940 n120d01.s
28	63	20.8	450	9	AL039859	AL039859 DKFZp434E
29	51	16.8	1257	14	CB993951	CB993951 AGENCOURT
30	38	12.5	555	12	B1836220	B1836220 603085778
31	35	11.6	570	10	B233526	B233526 139756 MA
32	32	10.6	215	13	EX474950	EX474950 DKFZp686I
33	28	9.2	543	29	CE728068	CE728068 tigr-gss-
34	27	8.9	441	13	BY285423	BY285423 BY285423
35	27	8.9	455	10	B8839755	B8839755 BB839755
36	27	8.9	529	13	EX520802	EX520802 BX520802
37	27	8.9	551	9	AI116483	AI116483 ud74c06.Y
38	27	8.9	557	13	BY704924	BY704924 BY704924
39	27	8.9	620	10	BB664621	BB664621 BB664621
40	27	8.9	631	10	B376779	B376779 601227331
41	27	8.9	655	14	CF170054	CF170054 B0821H10-
42	27	8.9	662	13	BY727209	BY727209 BY727209
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45	25	8.3	264	28	BH257414	BH257414 CH230-243

ALIGNMENTS

RESULT 1
CB994099
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE

CB994099 826 bp mRNA linear EST 01-MAY-2003
IMAGE:30331943 5', mRNA sequence.
CB994099
CB994099
CB994099.1 GI:30288619
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 826)

AUTHORS TITLE JOURNAL COMMENT

NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Dr. Stefan Hanson
cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
and advice from Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: NDAM348 row: c column: 24
High quality sequence stop: 637.

FEATURES source

1.826
Location/Qualifiers
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/db_xref="taxon:9606"
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/tissue_type="pre-eclamptic placenta"
/lab_host="DH10B Tona"
/clone_lib="NIH_MGC_148"
/note="Organ: placenta; Vector: pBluescriptR; Site 1:
ali-XhoI; Site 2: BamH; Library is oligo-dT primed and
directionally cloned using primer
5'-TTTTTTTTTTTTTTTNN-3', size-selected for average insert
size 2.3 kb and normalized to ROT 5. This is a primary
library enriched for full-length clones and constructed
using the Cap-trapper method (Carninci, in preparation).
Library constructed by M. Brownstein (NIMH/NHGRI,
National Institutes of Health). Note: this is a NIH_MGC
Library."

ORIGIN

Alignment Scores:
Pred. No.: 3.18e-158 Length: 826
Score: 202.00 Matches: 202
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 66.67% Indels: 0
DB: 14 Gaps: 0

US-10-047-021-86 (1-303) x CB994099 (1-826)

Qy	1	MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeu	20
Db	38	ATGGGCTCTGGAGGAGACAGCCTCTGGGGGGCAGGGGTTCCCTGCTCTGCTGCTGCTG	97
Qy	21	LeuileMetGlyGlyMetAlaGlnAspSerProGlnleileuValHisProGlnAsp	40
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Qy	41	GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnProPro	60
Db	158	CAGCTGTTCAGGGCCCTGGCCCTGCCAGATGAGCTGCCAGCCTCAGGCCAGCCACCT	217
Qy	61	ProThrileArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHis	80
Db	218	CCACCATCCGCTGGTGGTGAATGGGACGCCCTGAGCATGTGTGCCCGCCAGACCCAC	277
Qy	81	HisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHis	100
Db	278	CACCTCTGCTGATGGAGCCCTTCTGCTACAGCCCTCTGCCGGGACATGCCAC	337
Qy	101	AspGlyGlnAlaLeuSerThrAspLeuGlyValTyrThrCysGlnAlaSerAsnArgLeu	120
Db	338	GATGGCCAGGCCCTGTCCACAGACCTGGGTGTCTACACATGTGAGGCCAGCAACCGGTT	397
Qy	121	GlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGln	140
Db	398	GGCAGGCACTCAGCAGAGCGCTCGGCTGTCTGTGCTGTCTCTCGGGAGGATTTCCAG	457

Qy	141	IleGlnProArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyPro	160
Db	458	ATCCAGCCCTCGGACATGTGTGCTGGTGGGTGAGCAGTTTACTCTGGATGTGGCGCG	517
Qy	161	ProTrpGlyHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeu	180
Db	518	CCCTGGGGCCACCAGAGCCACACGTCTCATGTGGAAGATGGGAACCCCTGGCCCTC	577
Qy	181	GlnProGlyArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSer	200
Db	578	CAGCCCGGAAGACACACATGTCTCCGGGGGTCCTCTGATGGCAGAGCAGAGAAGAGT	637
Qy	201	AspGlu 202	
Db	638	GACGAA 643	

CB996189 860 bp mRNA linear EST 01-MAY-2003
AGENCOURT 13622686 NIH_MGC_148 Homo sapiens cDNA clone
IMAGE:30337143 5', mRNA sequence.
CB996189
CB996189.1 GI:30290709
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 860)
NIH-MGC <http://mgc.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Dr. Stefan Hanson
cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
and advice from Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: NDAM361 row: 1 column: 16
High quality sequence stop: 578.
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/clone_lib="NIH_MGC_148"
/note="Organ: placenta; Vector: pBluescriptR; Site 1:
ali-XhoI; Site 2: BamH; Library is oligo-dT primed and
directionally cloned using primer
5'-TTTTTTTTTTTTTTTNN-3', size-selected for average insert
size 2.3 kb and normalized to ROT 5. This is a primary
library enriched for full-length clones and constructed
using the Cap-trapper method (Carninci, in preparation).
Library constructed by M. Brownstein (NIMH/NHGRI,
National Institutes of Health). Note: this is a NIH_MGC
Library."

FEATURES source

Alignment Scores:
Pred. No.: 3.32e-158 Length: 860
Score: 202.00 Matches: 202
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 66.67% Indels: 0
DB: 14 Gaps: 0

ORIGIN

Alignment Scores:
Pred. No.: 3.32e-158 Length: 860
Score: 202.00 Matches: 202
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 66.67% Indels: 0
DB: 14 Gaps: 0

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>

Plate: NDAMI069 row: f column: 08
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Location/Qualifiers
1. .885

FEATURES source

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/mol_type="mRNA"
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/clone="IMAGE:30706303"
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ORIGIN

Alignment Scores:
Pred. No.: 3,436-158 Length: 885
Score: 202.00 Matches: 202
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 66.67% Indels: 0
DB: 14 Gaps: 0

US-10-047-021-86 (1-303) x CF994298 (1-885)

Qy	1	MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeu 20
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Qy	21	LeuileMetGlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAsp 40
Db	98	CTCATCATGGAGGAGTGGCTCAGGACTCCCGGCCAGATCTAGTCCACCCAGGAC 157
Qy	41	GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnPro 60
Db	158	CAGCTGTTCCAGGGGCCCTGGCCCTCCAGGATGAGTCCCGAGCTCAGGCGACCAT 217
Qy	61	ProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProAspProHis 80
Db	218	CCACCATCCGCTGGTGTCTGATGGGACGCCCTGAGCATGTGCCCCACAGCCACAC 277
Qy	81	HisLeuLeuProAspGlyThrLeuLeuLeuLeuGlnProProAlaArgGlyHisAlaHis 100
Db	278	CACCTCTGCTGATGGGACCTTCTGTGTCTACAGCCCTGCGGGGAGCATGCCAC 337
Qy	101	AspGlyGlnAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeu 120
Db	338	GATGGCCAGCCCTGTCCACAGACCTGGGTGTCTACATGTGAGGCCAGCACCGGCTT 397
Qy	121	GlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGln 140
Db	398	GGCAGCGCAGTCAGCAGAGCGCTCGCTGTCTGTGGTGTCTCTCGGGAGGATTTCCAG 457
Qy	141	IleGlnProArgAspMetValAlaValGlyGlnGlnPheThrLeuGluCysGlyPro 160
Db	458	ATCCAGCCTCGGGACATGGTGGCTGTGGTGGGTGAGCAGTTTACTCTGGAATGTGGCCG 517
Qy	161	ProTrpGlyHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeu 180
Db	518	CCCTGGGGCCACCCAGAGCCACAGTCTCATGTGTGGAAGATGGGAAACCCCTGGCCCTC 577
Qy	181	GlnProGlyArgHisThrValSerGlySerLeuLeuMetAlaArgAlaGluLysSer 200

US-10-047-021-86 (1-303) x CB996189 (1-860)

Qy	1	MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeuLeu 20
Db	38	ATGGGCTCTGGAGGAGACAGCTCTCGGGGACAGGGTTCCCTGCTGCTGCTGCTGCT 97
Qy	21	LeuileMetGlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAsp 40
Db	98	CTCATCATGGAGGAGTGGCTCAGATCTCCCGGCCAGATCTTAGTCCACCCCGAGGAC 157
Qy	41	GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnProPro 60
Db	158	CAGCTGTTCCAGGGGCCCTGGCCCTCCAGGATGAGTCCCGAGGCTCAGGCGACCCACCT 217
Qy	61	ProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProAspProHis 80
Db	218	CCACCATCCGCTGGTGTCTGATGGGACGCCCTGAGCATGTGCCCCAGAGCCACAC 277
Qy	81	HisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHis 100
Db	278	CACCTCTGCTGATGGGACCTTCTGTCTAGTACAGCCCTGCGGGGACATGCCAC 337
Qy	101	AspGlyGlnAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeu 120
Db	338	GATGGCCAGCCCTGTCCACAGACCTGGGTGTCTACACATGTGAGGCCAGCAACCGGCTT 397
Qy	121	GlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGln 140
Db	398	GGCAGCGCAGTCACAGAGCGCTCGCTGTCTGTGGTGTCTCTCGGGAGGATTTCCAG 457
Qy	141	IleGlnProArgAspMetValAlaValGlyGlnGlnPheThrLeuGluCysGlyPro 160
Db	458	ATCCAGCCTCGGGACATGGTGGCTGTGGTGGGTGAGCAGTTTACTCTGGAATGTGGCCG 517
Qy	161	ProTrpGlyHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeu 180
Db	518	CCCTGGGGCCACCCAGAGCCACAGTCTCATGTGTGGAAGATGGGAAACCCCTGGCCCTC 577
Qy	181	GlnProGlyArgHisThrValSerGlySerLeuLeuMetAlaArgAlaGluLysSer 200
Db	578	CAGCCCGAGGACACAGATGTCGGGGGTCCTGCTGATGGCAAGCAGCAGAGAGAGT 637
Qy	201	AspGlu 202
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RESULT 3
CF994298
LOCUS
DEFINITION
AGENCOURT_15622355 NIH_MGC_147 Homo sapiens cDNA clone
IMAGE:30706303 5', mRNA sequence.

ACCESSION
VERSION
CF994298
KEYWORDS
EST.
SOURCE
Homo sapiens (human)

ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE
1 (bases 1 to 885)
NIH-MGC <http://mgi.nci.nih.gov/>.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)

AUTHORS
Tissue Procurement: Dr. Stefan Hansson
Contact: Daniela S. Gerhard, Ph.D.
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892

TITLE
JOURNAL
COMMENT
Email: cgapbs-r@mail.nih.gov
cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
and advice from Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation

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Db      578 CAGCCCGAAGGACACACAGTGTCCGGGGGGTCCCTGCTGATGGCAAGAGAGAGAGT 637
QY      201 AspGlu 202
Db      638 GACGAA 643

RESULT 4
LOCUS   CB997292
DEFINITION   803 bp mRNA linear EST 01-MAY-2003
IMAGE:30336795 5', mRNA sequence.
ACCESSION   CB997292
VERSION     CB997292.1 GI:30291812
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 803)
AUTHORS    NIH-MGC http://mgi.nci.nih.gov/.
TITLE      National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL    Unpublished (1999)
COMMENT    Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-remail.nih.gov
            Tissue Procurement: Dr. Stefan Hansson
            cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
            and advice from Piero Carninci (RIKEN)
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: NDAM360 row: n column: 04
            High quality sequence stop: 535.
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                /lab_host="DH10B Tona"
                /clone_lib="NIH_MGC_148"
                /note="Organ: placenta; Vector: pBluescriptR; Site 1:
                all-XhoI; Site 2: BamH; Library is oligo-dT primed and
                directionally cloned using primer
                5'-TTTTTTTTTTTTTTVN-3', size-selected for average insert
                size 2.3 kb, and normalized to ROT 5. This is a primary
                library enriched for full-length clones and constructed
                using the Cap-trapper method (Carninci, in preparation).
                Library constructed by M. Brownstein (NHGRI/
                National Institutes of Health). Note: this is a NIH_MGC
                Library."

ALIGNMENT Scores:
Pred. No.: 1.53e-141 Length: 803
Score: 182.00 Matches: 182
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 60.07% Indels: 0
DB: 14 Gaps: 0

US-10-047-021-86 (1-303) x CB997292 (1-803)

QY      1 MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeu 20
Db      38 ATGGGCTCTGAGAGAGACAGCTCTCTGGGGGAGGGGTTCCCTGCTGCTGCTCTG 97

QY      21 LeuileMetGlyGlyMetAlaGlnAspSerProProGlnileLeuValHisProGlnAsp 40
Db      98 CTCATCATGGGAGGATCGCTCAGGACTCCCGCGCCCGCCAGATCTCTAGTCCACCCCGAGGAC 157

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QY      41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnProPro 60
Db      158 CAGCTGTTCCAGGGCCCTGGCCCTCCAGGATGAGCTCCGAGCCTCAGGCCAGCCACT 217

QY      61 ProThrIleArgTrrLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHis 80
Db      218 CCCACCATCCGCTGTTGCTGAATGGGAGCCCTCGAGCATGGTGGCCCGGAGACCCAC 277

QY      81 HisLeuLeuProAspGlyThrLeuLeuLeuLeuGlnProProAlaArgGlyHisAlaHis 100
Db      278 CACCTCTGCTGATGGGACCTTCTGCTGTACAGCCCCCTGCCCGGGGACATGCCAC 337

QY      101 AspGlyGlnAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeu 120
Db      338 GATGGCCAGGCCCTGTCCACAGACCTGGTGTCTACACATGTGAGGCCAGCAACCGGCTT 397

QY      121 GlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGln 140
Db      398 GGCACGGCAGTCAGCAGAGCGCTCGGTGTCTGTGGTGTCTCCCGGGAGGATTTCCAG 457

QY      141 IleGlnProArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyPro 160
Db      458 ATCCAGCCTCGGACATGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGT 517

QY      161 ProTrpGlyHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeu 180
Db      518 CCTCGGGGCCACCCAGAGCCACAGTCTCATGTGGTGGAAAGATGGGAAACCCCTGGCCCTC 577

QY      181 GlnPro 182
Db      578 CAGCCC 583

RESULT 5
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LOCUS   CB961818
DEFINITION   688 bp mRNA linear EST 29-APR-2003
IMAGE:30349135 5', mRNA sequence.
ACCESSION   CB961818
VERSION     CB961818.1 GI:30217935
KEYWORDS    EST.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE   1 (bases 1 to 688)
AUTHORS    NIH-MGC http://mgi.nci.nih.gov/.
TITLE      National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL    Unpublished (1999)
COMMENT    Contact: Robert Strausberg, Ph.D.
            Email: cgapbs-remail.nih.gov
            Tissue Procurement: Dr. Stefan Hansson
            cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
            and advice from Piero Carninci (RIKEN)
            cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: Agencourt Bioscience Corporation
            Clone distribution: MGC clone distribution information can be
            found through the I.M.A.G.E. Consortium/LLNL at:
            http://image.llnl.gov
            Plate: NDAM392 row: p column: 08
            High quality sequence stop: 448.
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                /clone_lib="NIH_MGC_148"
                /note="Organ: placenta; Vector: pBluescriptR; Site 1:
                all-XhoI; Site 2: BamH; Library is oligo-dT primed and
                directionally cloned using primer
                5'-TTTTTTTTTTTTTTVN-3', size-selected for average insert
                size 2.3 kb, and normalized to ROT 5. This is a primary
                library enriched for full-length clones and constructed
                using the Cap-trapper method (Carninci, in preparation).
                Library constructed by M. Brownstein (NHGRI/
                National Institutes of Health). Note: this is a NIH_MGC
                Library."

FEATURES
source

```

size 2.3 kb and normalized to ROT 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIMH/NHGRI, National Institutes of Health). Note: this is a NIH_MGC Library."

ORIGIN

Alignment Scores: 1.32e-136 Length: 688
Pred. No.: 176.00 Matches: 176
Score: 100.00% Conservative: 0
Percent Similarity: 100.00% Mismatches: 0
Best Local Similarity: 100.00% Indels: 0
Query Match: 58.09% Gaps: 0
DB: 14

US-10-047-021-86 (1-303) x CB961818 (1-688)

QY 1 MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeu 20
Db 38 ATGGGCTCTGGAGAGACAGCTCTGGGGGGGAGGGGTTCCTGCTGCTGCTGCTG 97
QY 21 LeuLeuMetGlyGlyMetAlaGlnAspSerProGlnLeuValHisProGlnAsp 40
Db 98 CTATCATGGAGGAGCATGGCTCAGGACTCCCGCCCGCAGATCTTAGTCCACCCCGAGGAC 157
QY 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnProPro 60
Db 158 CAGCTGTTCAGGGCCCTGGCCCTGCCAGATGAGTGGCCGAGCCTCAGCCAGCCACCT 217
QY 61 ProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHis 80
Db 218 CCCACCATCGGCTGTGCTGAATGGGAGGAGGAGTGGTGGCCCGCCAGACCCACAC 277
QY 81 HisLeuLeuProAspGlyThrLeuLeuGlnProProAlaArgGlyHisAlaHis 100
Db 278 CACCTCTCTGCTGATGGAGGAGGAGTGGTGGCCCGCCAGATGCTAGTCCACCCCGAGGAC 337
QY 101 AspGlyGlnAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeu 120
Db 338 GATGGCCAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 397
QY 121 GlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGlyHisProGln 140
Db 398 GGCACCGGAGTCCAGCAGGAGGAGTGGTGGCCCGCCAGATGCTAGTCCACCCCGAGGAC 457
QY 141 IleGlnProArgAspMetValAlaValGlyGlnGlnPheThrLeuGluCysGlyPro 160
Db 458 ATCCAGCCTCGGAGACATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 517
QY 161 ProTrpGlyHisProGluProThrValSerTrpTrpLysAspGlyLys 176
Db 518 CCCTGGGGCCACCCAGAGCCACAGTCTCATGGTGGAAAGATGGGAAA 565

RESULT 6

CB961529 798 bp mRNA linear EST 29-APR-2003
LOCUS AGENCOURT_13893367 NIH_MGC_148 Homo sapiens cDNA clone
DEFINITION IMAGE:30348011 5', mRNA sequence.
ACCESSION CB961529
VERSION CB961529.1 GI:30217646
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM

Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 (bases 1 to 798)
NIH-MGC <http://mgi.nci.nih.gov/>.
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgsbbs-remail.nih.gov
Tissue Procurement: Dr. Stefan Hansson

cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help and advice from Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: NDAM390 row: a column: 12
High quality sequence stop: 565.

FEATURES

Location/Qualifiers
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/organism="Homo sapiens"
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/clone="IMAGE:30348011"
/tissue_type="pre-eclampsic placenta"
/lab_host="DH10B Tona"
/clone_lib="NIH_MGC_148"
/note="Organ: placenta; Vector: pBluescriptR; Site 1:
all-XhoI; Site 2: BamH; Library is oligo-dT primed and
directionally cloned using primer
5'-TTTTTTTTTTTTTNN-3', size-selected for average insert
size 2.3 kb and normalized to ROT 5. This is a primary
library enriched for full-length clones and constructed
using the Cap-trapper method (Carninci, in preparation).
Library constructed by M. Brownstein (NIMH/NHGRI,
National Institutes of Health). Note: this is a NIH_MGC
Library."

ORIGIN

Alignment Scores: 1.55e-136 Length: 798
Pred. No.: 176.00 Matches: 176
Score: 100.00% Conservative: 0
Percent Similarity: 100.00% Mismatches: 0
Best Local Similarity: 100.00% Indels: 0
Query Match: 58.09% Gaps: 0
DB: 14

US-10-047-021-86 (1-303) x CB961529 (1-798)

QY 1 MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeu 20
Db 38 ATGGGCTCTGGAGGAGACAGCTCTGGGGGGGAGGGGTTCCTGCTGCTGCTGCTG 97
QY 21 LeuLeuMetGlyGlyMetAlaGlnAspSerProGlnLeuValHisProGlnAsp 40
Db 98 CTATCATGGAGGAGCATGGCTCAGGACTCCCGCCCGCAGATCTTAGTCCACCCCGAGGAC 157
QY 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnProPro 60
Db 158 CAGCTGTTCAGGGCCCTGGCCCTGCCAGATGAGTGGCCGAGCCTCAGCCAGCCACCT 217
QY 61 ProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHis 80
Db 218 CCCACCATCGGCTGTGCTGAATGGGAGGAGGAGTGGTGGCCCGCCAGACCCACAC 277
QY 81 HisLeuLeuProAspGlyThrLeuLeuGlnProProAlaArgGlyHisAlaHis 100
Db 278 CACCTCTCTGCTGATGGAGGAGGAGTGGTGGCCCGCCAGATGCTAGTCCACCCCGAGGAC 337
QY 101 AspGlyGlnAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeu 120
Db 338 GATGGCCAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 397
QY 121 GlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGlyHisProGln 140
Db 398 GGCACCGGAGTCCAGCAGGAGGAGTGGTGGCCCGCCAGATGCTAGTCCACCCCGAGGAC 457
QY 141 IleGlnProArgAspMetValAlaValGlyGlnGlnPheThrLeuGluCysGlyPro 160
Db 458 ATCCAGCCTCGGAGACATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 517
QY 161 ProTrpGlyHisProGluProThrValSerTrpTrpLysAspGlyLys 176

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Db      518  CCCTGGGCGCCACAGAGCCACAGTCTCATGTGGAAGATGGAAA 565
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RESULT 7
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LOCUS      558 bp      mRNA      linear      EST 04-SEP-2003
DEFINITION DKFZp68601413.r1.686 (synonym: hlcc3) Homo sapiens cDNA clone
ACCESSION DKFZp68601413.5, mRNA sequence.
AL602474
VERSION    AL602474.1 GI:15165980
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 558)
AUTHORS   Ansgorge,W., Wirkner,U., Mewes,H.W., Weil,B. and Wiemann,S.
TITLE     EST (Ansgorge,W., Wirkner,U., Mewes,H.W., Weil,B. and Wiemann,S.)
JOURNAL   Unpublished (1999)
COMMENT    Contact: MIPS
MIPS
Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert
Clone from S. Wiemann, Molecular Genome Analysis, German Cancer
Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de;
Sequenced by EMBL (European Molecular Biology Laboratories,
Heidelberg/Germany) within the cDNA sequencing consortium of the
German Genome Project.
No sl sequence available.
This clone (DKFZp68601413) is available at the RZPD in Berlin.
Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059
Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
FEATURES
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/clone="DKFZp68601413"
/dev_stage="adult"
/lab_host="DH10B"
/clone_lib="686 (synonym: hlcc3)"
/note="vector: pRiplex2; Site_1: SfIIA; Site_2: SfiIB;
cDNA-collection"
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Alignment Scores:
Pred. No.: 3.34e-134 Length: 558
Score: 173.00 Matches: 173
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 57.10% Indels: 0
DB: 9 Gaps: 0
US-10-047-021-86 (1-303) x AL602474 (1-558)
QY 1 MetGlySerGlyGlyAspSerLeuLeuGlyGlyGlyArgGlySerLeuProLeuLeuLeu 20
Db 40 ATGGGCTCTGGAGGAGACAGCTCTGGGGGGGAGGGGTTCCCTGCTGCTGCTGCTG 99
QY 21 LeuLeuMetGlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAsp 40
Db 100 CTCATCATGGAGGAGCATGGTTCAGGACTCCCGCCCGCCAGACTTATGTCACCCCGAGGAC 159
QY 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnProPro 60
Db 160 CAGCTGTTCAGGGGCGCTTGGCCCTGCAGATGAGTGGCGGCTCAGGCCAGCCACT 219
QY 61 ProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHis 80
Db 220 CCACCATCCGCTGGTGTGCTGAATGGGACAGCCCTCAGCATGGTGGCCCGCCAGACCCAC 279
QY 81 HisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHis 100
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Db      280  CACCTCCTGCTGATGGGACCCCTTCTGCTGTCTACAGCCCTGCGCGGGACATGCCAC 339
QY 101 AspGlyGlnAlaLeuSerThrAspLeuGlyValThrCysGluAlaSerAsnArgLeu 120
Db 340 GATGGCCAGGCGCTCTCCACAGCTGGTGTCTACATGATGGCCAGCAACCGGTT 399
QY 121 GlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGln 140
Db 400 GCACGGCAGTCCAGCAGAGCGCTCGGCTGCTGTGGTGTCTCTCCGGGAGGATTTCCAG 459
QY 141 IleGlnProArgAspMetValAlaValAlaValGlyGlnPheThrLeuGluCysGlyPro 160
Db 460 ATCCAGCTCCGGGACATGCTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGGTGTGG 519
QY 161 ProTrpGlyHisProGluProThrValSerTrpTrpLys 173
Db 520 CCCTGGGCGCCACCCAGAGCCACACTCTCATGTGGAAGATGGAAA 558
RESULT 8
BM921911
LOCUS      1019 bp      mRNA      linear      EST 12-MAR-2002
DEFINITION AGENCOURT 6706908 NIH_MGC_115 Homo sapiens cDNA clone IMAGE:5753515
5', mRNA sequence.
ACCESSION BM921911
VERSION    BM921911.1 GI:19372290
KEYWORDS   EST.
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1019)
AUTHORS   NIH-MGC http://mgi.cni.nih.gov/.
TITLE     National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL   Unpublished (1999)
COMMENT    Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Life Technologies, Inc.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone Distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM12789 row: g column: 20
High quality sequence stop: 697.
Location/Qualifiers
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/db_xref="taxon:9606"
/clone="IMAGE:5753515"
/lab_host="DH10B"
/clone_lib="NIH_MGC_115"
/note="Organ: pooled brain, lung, testis; Vector:
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source anonymous pool of 6 male brains, age range 23-27; 1
male lung, age 27; and 1 male testis, age 69. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.8 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
021. Note: this is a NIH_MGC Library."
ORIGIN
Alignment Scores:
Pred. No.: 4.79e-113 Length: 1019
Score: 148.00 Matches: 211
Percent Similarity: 99.06% Conservative: 0
Best Local Similarity: 99.06% Mismatches: 1
Query Match: 48.84% Indels: 2
DB: 12 Gaps: 0

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US-10-047-021-86 (1-303) x BM921911 (1-1019)

55 AlaSerGlyGlnProProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMet 74
 76 GCCTCAGCCAGCCACCTCCACCATCCGCTGGTGTGCTGAATGGGAGCCCTGAGCATG 135
 75 ValProProAspProHisHisLeuLeuProAspGlyThrLeuLeuLeuGlnProPro 94
 136 GTGCCCCCAGCCACACACCTCTCTGCTGATGGGACCTTCTGCTGACAGCCCTT 195
 95 AlaArgGlyHisAlaHisAspGlyGlnAlaLeuSerThrAspLeuGlyValTyrThrCys 114
 196 GCCCGGGGACATGCCACGATGCCAGCCCTGTGCCACAGCATCTGGTGTCTACATGT 255
 115 GluAlaSerAsnArgLeuGlyThrAlaValSerArgGlyAlaArgLeuSerValAlaVal 134
 256 GAGCCCAACACCGCTTGCACGGCAGTCCAGAGGCGCTCGGCTGTCTGGTGTGTC 315
 135 LeuArgGluAspPheGlnIleGlnProArgAspMetValAlaValGlyGlnPhe 154
 316 CTCGGGAGGATTTCCAGATCCAGCTCCGGACATGCTGCTGTGGTGGAGCAGTTT 375
 155 ThrLeuGluCysGlyProProThrGlyHisProGluProThrValSerTrpTrpLysAsp 174
 376 ACTCTGAATGTGGGCGCCCTGGGGCCACCCAGAGCCACAGTCTCATGTGGAAGAT 435
 175 GlyLysProLeuAlaLeuGlnProGlyArgHisThrValSerGlyGlySerLeuLeuMet 194
 436 GGGAAACCCCTGGCCCTCCAGCCGGAAGCACACAGTGTCCGGGGGCTCCCTGCTGATG 495
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 496 GCAAGAGCAGAGAAGAGTACGAGAGG-GACCTACATGTGTGTGGCCACCAACAGCGCAGG 554
 214 YHisArgGluSerArgAlaAlaArgValSerIleGlnGluProGlnAspTyrThrGluPr 234
 555 ACATAGGAGAGCGCGCAGCCGGGTTTCCATCCAGAGCCCGCAGGACTACACGAGGCC 614
 234 oValGluLeuLeuAlaValArgIleGlnLeuGluAsnValThrLeuLeuAsnProAspPr 254
 615 TGTGAGCTCTGGCTGTGGATTCAGCTGGAATGTGCACTGCTGTAACCGGATCC 674
 254 oAlaGluGlyProLysProArgProAlaValTrpLeu 266
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RESULT 9
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 LOCUS
 DEFINITION Homo sapiens, Similar to roundabout homolog 4, magic roundabout
 (Drosophila), clone IMAGE:5590503, mRNA.
 ACCESSION BC039602
 VERSION BC039602.1 GI:24660430
 KEYWORDS HTC
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 TITLE Direct Submission
 AUTHORS Strausberg, R.
 JOURNAL Submitted (01-NOV-2002) National Institutes of Health, Mammalian
 Gene Collection (MGC), Cancer Genomics Office, National Cancer
 Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
 USA
 REMARK NIH-MGC Project URL: http://mgc.nci.nih.gov
 COMMENT Contact: MGC help desk
 Email: gcapbe@mail.nih.gov
 Tissue Procurement: Invitrogen
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Institute for Systems Biology
 http://www.systemsbio.org

contact: amadan@systemsbiology.org
 Anup Madan, Jessica Fahey, Erin Helton, Mark Kettman, Anuradha
 Madan, Stephanie Rodriguez, Amy Sanchez and Michelle Whiting

Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
 Series: IRAK Plate: 84 Row: i Column: 5
 This clone was selected for full length sequencing because it
 passed the following selection criteria: Hexamer frequency ORF
 analysis, Genomescan gene prediction
 This clone has the following problem: frame shifted.

FEATURES
 Location/Qualifiers
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 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:5590503"
 /tissue_type="Ovary, pooled from 3 adults"
 /clone_lib="NIH MGC_125"
 /lab_host="DH10B"
 /note="Vector: pCMV-SPORT6"

ORIGIN
 Alignment Scores:
 Pred. No.: 2,018-112 Length: 3758
 Score: 148.00 Matches: 264
 Percent Similarity: 98.51% Conservative: 0
 Best Local Similarity: 98.51% Mismatches: 2
 Query Match: 48.84% Indels: 4
 DB: 11 Gaps: 0

US-10-047-021-86 (1-303) x BC039602 (1-3758)

QY 1 MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeu 20
 Db 29 ATGGGCTCTGGAGAGAGACAGCCCTCTGGGGGAGAGGGTCTCTGCTCTGCTGCTG 88
 QY 21 LeuIleMetGlyGlyMetAlaGlnAspSerProProGlnIleLeuValHisProGlnAsp 40
 Db 89 CTCATCATGGGAGGAGCATGGCTCAGGACTCCCGGCCAGATCCTAGTCCACCCCGAGAC 148
 QY 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProPr 60
 Db 149 CAGCTGTTCAGGGGCCCTGGCCCTGCCAGGATGAGCTGCCA-AGCCTCAGGCCACCCACC 207
 QY 60 oProThrIleArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHi 80
 Db 208 TCCCACCATCCGCTGGTGTGCTGAATGGGAGCCCTGAGCATGTGTCCTCCAGAGCCACA 267
 QY 80 stHisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHi 100
 Db 268 CCACCTCTCTGCTGATGGGACCTTCTGCTGTACAGCCCTCTGCGGGGACATGCCCA 327
 QY 100 sAspGlyGlnAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLe 120
 Db 328 CGATGGCCAGGCCCTGTCCAGACCTGGGTGCTTACACATGTGAGGCCAGCAACCGGCT 387
 QY 120 uGlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuLeuArgGluAspPheGl 140
 Db 388 TGGCAGCGGAGTCCAGCAGAGGCGCTCGGCTGTCTGTGGCTGTCTCCCGGGAGATTCCA 447
 QY 140 nIleGlnProArgAspMetValAlaValValGlyGlnGlnPheThrLeuGluCysGlyPr 160
 Db 448 GATCCAGCTCCGGGACATGGTGGCTGTGGTGGGTGAGCAGATTACTCTGGAAATGGGGCC 507
 QY 160 oProTrpGlyHisProGluProThrValSerTrpTrpLysAspGlyLysProLeuAlaLeu 180
 Db 508 GCCCTGGGGCCACCAGAGCCACAGTCTCATGTGTGGAAGATGGGAAACCCCTGGCCCT 567
 QY 180 uGlnProGlyArgHisThrValSerGlyGlySerLeuLeuMetAlaArgAlaGluLysSe 200
 Db 568 CCAGCCCGGAGGACACAGATGTCCGGGGGGTCCCTGTGTGTGATGGCAGAGCAGAGAG 627

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QY 200 rAspGlu***-ThrTyMetCysValAlaThrAsnSerAlaGlyHisArgGluSerArgA 220
DB 628 TGACGAAGG-GACCTACATGTGTGTGGCCACCAACAGCGGAGGACATAGGAGCGCG 686

QY 220 laAlaArgValSerIleGlnGluProGlnAspTyrThrGluProValGluLeuAlaVal 240
DB 687 CAGCCCGGGTTTCATCCAGAGGCCCGAGGACTACAGGAGCCCTGTGGAGCTTCTGGCTG 746

QY 240 alaGlieGlnLeuGluAsnValThrLeuLeuAsnProAspProAlaGluGlyProLysP 260
DB 747 TGCGAATTCAGCTGGAATAATGTGACACTGCTGTAACCCGGATCTCTGCAGAGGGCCCAAGC 806

QY 260 rCArgProAlaValTyrPleu 266
DB 807 CTAGACCGGCGGTGTGGCTC 826

RESULT 10
LOCUS CB959649 771 bp mRNA linear EST 29-APR-2003
DEFINITION AGENCOURT_13893577 NIH_MGC_147 Homo sapiens cDNA clone
IMAGE:30344820 5', mRNA sequence.
ACCESSION CB959649
VERSION CB959649.1 GI:30215765
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 771)
NIH-MGC http://mgs.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Dr. Stefan Hansson
cDNA Library Preparation: Michael J. Brownstein (NHGR) with help
and advice from Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: NDAM381 row: 1 column: 13
High quality sequence stop: 628.
Location/Qualifiers
1..771
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:30344820"
/tissue_type="Human Placenta"
/lab_host="DH10B Tona"
/clone_lib="NIH_MGC_147"
/note="Organ: Placenta; Vector: pBluescriptR; Site: 1:
all-XhoI; Site 2: BamHI; Oligo-dT primed using primer
5'-TTTTTTTTTTTTTNN-3', size-selected for average
insert size 2.3 kb and normalized to ROT 5. This is a
primary library enriched for full-length clones and
constructed using the Cap-trapper method (Carninci, in
preparation). Library constructed by M. Brownstein
(NHGR/NHGR). National Institutes of Health. Note: This is
a NIH_MGC library."

ORIGIN
Alignment Scores:
Pred. No.: 1..17e-100 Length: 771
Score: 133.00 Matches: 186
Percent Similarity: 98.94% Conservative: 0
Best Local Similarity: 98.94% Mismatches: 1
Query Match: 43.89% Indels: 2
DB: 14 Gaps: 0

US-10-047-021-86 (1-303) x CB959649 (1-771)

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```

QY 1 MetGlySerGlyGlyAspSerLeuLeuGlyArgGlySerLeuProLeuLeuLeuLeu 20
DB 66 ATGGGCTCTGTGAGGAGACAGCGCTCTGGGGGGGAGGGTTCCCTGCTCTCTGCTCTG 125

QY 21 leuLleMetGlyGlyMetAlaGlnAspSerProGlnIleLeuValHisProGlnAsp 40
DB 126 CTCATCATGGGAGGAGCATGGCTCAGACTCCCGCCGAGATCCTAGTCCACCCGAGAC 185

QY 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProPr 60
DB 186 CAGCTGTTCCAGGGCCCTGGCCCTGCCAGGATGAGTGCCA-AGCCTCAGGCCAGCCACC 244

QY 60 oProThrIleArgTyrLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHi 80
DB 245 TCCACCACTCCGCTGGTTGCTGAATGGGACGCCCTGAGCATGGTGGCCCGAGACCCACA 304

QY 80 sHisLeuLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHi 100
DB 305 CCACCTCTCTGCTGATGGGACCCCTTCTGCTGTACAGCCCCCTGCCGGGAGCATGCCCA 364

QY 100 sAspGlyGlnAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLe 120
DB 365 CGATGGCCAGGCCCTGTCCACAGACCTGGGTGTCTACACATGTGAGGCCAGCAACCGGCT 424

QY 120 uGlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheGl 140
DB 425 TGGCAGGCGAGTCACAGAGCGCTCGGCTGTGTGTGGCTGTCTCTCCGGGAGGATTTCCA 484

QY 140 nIleGlnProArgAspMetValAlaValValGlyGluGlnPheThrLeuGluCysGlyPr 160
DB 485 GATCCAGCCTCGGACATGCTGGCTGTGCTGGGTGAGCAGATTACTTCTGGAATGTGGGCC 544

QY 160 oProTyrGlyHisProGluProThrValSerTyrTrpLysAspGlyLysProLeuAlaLe 180
DB 545 GCCCTGGGGGCCACCCAGAGCCACAGTCTCATGTGGTGAAGATGGGAACCCCTGGGCCCT 604

QY 180 uGlnProGlyArgHisThrVal 187
DB 605 CCAGCCCGGAGGACACACAGTG 626

RESULT 11
LOCUS BM906521 1230 bp mRNA linear EST 12-MAR-2002
DEFINITION AGENCOURT_6620212 NIH_MGC_125 Homo sapiens cDNA clone IMAGE:5590503
5', mRNA sequence.
ACCESSION BM906521
VERSION BM906521.1 GI:19356900
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 1230)
NIH-MGC http://mgs.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Invitrogen
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM12364 row: 0 column: 16
High quality sequence stop: 535.
Location/Qualifiers
1..1230
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"

FEATURES
source

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/clone="IMAGE:5590503"
/lab_host="DH10B"
/clone_lib="NIH_MGC_125"
/notes="Organ: ovary (pool of 3); Vector: pCMV-SPORT6;
Site1: scov (destroyed); Site2: NotI; RNA source pool
of three ovaries, from females ranging in age from 38 to
49 yo. Library is oligo-dT primed and directionally cloned
(EcoRV site is destroyed upon cloning). Average insert
size 2.1 kb, insert size range 1-3.5 kb. Library is
normalized and enriched for full-length clones and was
constructed by C. Gruber (Invitrogen). Research Genetics
tracking code 036."

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ORIGIN

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Alignment Scores:
Pred. No.: 1,96e-100 Length: 1230
Score: 133.00 Matches: 186
Percent Similarity: 98.94% Conservative: 0
Best Local Similarity: 98.94% Mismatches: 1
Query Match: 43.89% Indels: 2
DB: 12 Gaps: 0
US-10-047-021-86 (1-303) x BM906521 (1-1230)

```

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Qy 1 MetGlySerGlyGlyAaspSerLeuGlyGlyAArgGlySerLeuProLeuLeuLeu 20
Db 35 ATGGGCTCTGAGGAGACACCTCTCTGGGGGAGGGGTTCCCTGCTGCTGCTGCTG 94
Qy 21 LeuileMetGlyGlyMetAlaGinAaspSerProProGlnIleLeuValHisProGlnA 40
Db 95 CTATCATGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 154
Qy 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProPr 60
Db 155 CAGCTGTTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 213
Qy 60 oProThrIleArgTrpLeuLeuAenGlyGlnProLeuSerMetValProProAaspProHi 80
Db 214 TCCACCATCCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 273
Qy 80 sHisLeuLeuProAaspGlyThrLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 100
Db 274 CCACCTCTGCTGATGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 333
Qy 100 sAaspGlyGlnAlaLeuSerThrAaspLeuGlyValThrCysGluAlaSerAsnArgLe 120
Db 334 CGATGGCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 393
Qy 120 uGlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAaspPheG 140
Db 394 TGGCAGGCGCATCAGCAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 453
Qy 140 nIleGlnProAaspMetValAlaValAlaValGlyGlnPheThrLeuGluCysGlyPr 160
Db 454 GATCCAGCTCGGAGACATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 513
Qy 160 oProTrpGlyHisProGluProThrValSerTrpTrpIysAaspGlyLysProLeuAlaLe 180
Db 514 GCCCTGGGGGCCACCCAGAGCCACAGTCTCATGGTGGGAAGATGGGAACCCCTGGCCCT 573
Qy 180 uGlnProGlyArgHisThrVal 187
Db 574 CCAGCCCGAAGGACACAGTG 595

```

```

RESULT 12
BQ890126
LOCUS BQ890126 941 bp mRNA linear EST 16-AUG-2002
DEFINITION AGENCOURT 7982449 Lupski_dorsal_root_ganglion Homo sapiens cDNA
clone IMAGE:6186214 5', mRNA sequence.
ACCESSION BQ890126
VERSION BQ890126.1 GI:22282140
KEYWORDS EST.
SOURCE Homo sapiens (human)

```

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

1 (bases 1 to 941)

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished (1999)

Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: c9apbs-remail.nih.gov

Tissue Procurement: Dr. James R. Lupski

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Agencourt Bioscience Corporation

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: LRAM13578 row: d column: 23

High quality sequence start: 6

High quality sequence stop: 612.

Location/Qualifiers

1, 941

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:6186214"

/sex="male"

/tissue_type="dorsal root ganglia"

/dev_stage="adult, 36 yr"

/lab_host="DH10B"

/clone_lib="Lupski dorsal root ganglion"

/note="Vector: pCMV-SPORT6 (Life Technologies); Site 1:

NotI; Site 2: SalI; cDNA made by oligo-dT priming.

Directionally cloned using the following adaptors:

5'-TCGACCCAGCGTCGCG-3' and

5'-GACTAGTCTAGATCGAGCGCGCCT(15)-3'. Size selected >

1 kb for average insert length 1.7 kb. This is a primary

library, non-amplified. Library constructed by Life

Technologies and donated by J. Lupski, M.D./Ph.D. (Baylor

College of Medicine) and is available through Life

Technologies."

ORIGIN

```

Alignment Scores:
Pred. No.: 6,82e-99 Length: 941
Score: 131.00 Matches: 184
Percent Similarity: 98.92% Conservative: 0
Best Local Similarity: 98.92% Mismatches: 1
Query Match: 43.23% Indels: 2
DB: 13 Gaps: 0

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US-10-047-021-86 (1-303) x BQ890126 (1-941)

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Qy 1 MetGlySerGlyGlyAaspSerLeuGlyGlyAArgGlySerLeuProLeuLeuLeu 20
Db 53 ATGGGCTCTGAGGAGACACCTCTCTGGGGGAGGGGTTCCCTGCTGCTGCTGCTG 112
Qy 21 LeuileMetGlyGlyMetAlaGlnAaspSerProProGlnIleLeuValHisProGlnA 40
Db 113 CTATCATGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 172
Qy 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProPr 60
Db 173 CAGCTGTTCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 231
Qy 60 oProThrIleArgTrpLeuLeuAenGlyGlnProLeuSerMetValProProAaspProHi 80
Db 232 TCCACCATCCGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGG 291
Qy 80 sHisLeuLeuProAaspGlyThrLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeuLeu 100
Db 292 CCACCTCTGCTGATGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 351
Qy 100 sAaspGlyGlnAlaLeuSerThrAaspLeuGlyValThrCysGluAlaSerAsnArgLe 120

```

```

Db      352 CGATGCCAGGCCCTGTCCACAGACCTGGGTGTCTACACATGTGAGGCCAGCAACCGGCT 411
QY      120 uGlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheG1 140
Db      412 TGGCAGCGGAGTCAGCAGAGGCGCTCGGTGTCTGTGGCTGTCTCCCGGAGGATTCCCA 471
QY      140 nileGlnProArgAspMetValAlaValValGlyClnGlnPheThrLeuGluCysGlyPr 160
Db      472 GATCCAGCGCTCGGACATGGTGGCTGTGTGGTGAGCAGTTTACTCTGGAATGTGGGCC 531
QY      160 oProTIPGlyHisProGluProThrValSerTriPtyAspGlyLysProLeuAlaLe 180
Db      532 GCCTGGGGCCACCCAGAGGCCACAGTCTCATGGTGGAAAGATGGGAACCCCTGGCCCT 591
QY      180 uGlnProGlyArgHis 185
Db      592 CCAGCCCGAAGGCAC 607

RESULT 13
AL553360
LOCUS   AL553360 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
DEFINITION
ACCESSION
VERSION  AL553360.2 GI:31275174
KEYWORDS
SOURCE   Homo sapiens (human)
ORGANISM
REFERENCE
AUTHORS  Li,W.B., Gruber,C., Jessee,J. and Polayes,D.
TITLE    Full-length cDNA libraries and normalization
JOURNAL  Unpublished (2001)
COMMENT  On Feb 15, 2001 this sequence version replaced gi:12893123.
Contact: Genoscope
Genoscope - Centre National de Sequencage
BP 191 91006 EVRY cedex - France
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
Library was constructed by Life Technologies, a division of
Invitrogen. This sequence belongs to sequence cluster 6206.r For
more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CS0DI075CH07QPI&cluster=6206.r. Contact :
Feng Liang Email : fliang@lifetech.com URL :
http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
Faraday Avenue Genoscope sequence ID : CS0DI075CH07QPI.

FEATURES
source
Location/Qualifiers
1..1201
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CS0DI075YP13"
/tissue_type="PLACENTA COT 25-NORMALIZED"
/clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
/notes="1st strand cDNA was primed with a NotI-oligo(dT)
primer. Five prime end enriched, double-strand cDNA was
digested with NotI and cloned into the NotI and EcoRV
sites of the pCMVSPORT 6 vector. Library was normalized."

ORIGIN
Alignment Scores:
Pred. No.: 1.33e-94 Length: 1201
Score: 126.00 Matches: 179
Percent Similarity: 98.90% Conservative: 0
Best Local Similarity: 98.90% Mismatches: 1
Query Match: 41.58% Indels: 2
DB: 9 Gaps: 0

US-10-047-021-86 (1-303) x AL553360 (1-1201)
QY 1 MetGlySerGlyGlyAspSerLeuLeuGlyArgGlySerProLeuLeuLeu 20

```

```

Db      81 ATGGGCTCTGGAGGACACAGCCCTCTGGGGGGCAGGGGTTCCTCTGCTGCTCTG 140
QY      21 LeuileMetGlyGlyMetAlaGlnAepSerProProGlnileLeuValHisProGlnAsp 40
Db      141 CTATCATGGAGGACATGGCTCAGGACTCCCGCCCGCCAGATCTTAGTCCACCCCGAGAC 200
QY      41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArg-AlaSerGlyGlnProPr 60
Db      201 CAGCTGTTCAGGGCCCTGGCCCTTCGACGATGAGTGCCA-AGCCTCAGGCCAGCCACC 259
QY      60 oProThrileArgTIPLeuLeuAasnGlyGlnProLeuSerMetValProProAspProHi 80
Db      260 TCCACCATCCGCTGGTGTCTGAATGGGCGAGCCCTTGACATGGTGGCCCCCAGCCACA 319
QY      80 sHisLeuProAspGlyThrLeuLeuLeuGlnProProAlaArgGlyHisAlaHi 100
Db      320 CCACCTCTCTGCTGATGGGACCCCTTCTGCTGTACAGCCCCCTGCCCGGGACATGCCCA 379
QY      100 saspGlyGlnAlaLeuSerThrAspLeuGlyValTyThrCysGluAlaSerAsnArgle 120
Db      380 CGATGGCCAGGGCCCTGTCCACAGACCTGGGTGTCTACACATGTGAGGCCAGCAACCGGCT 439
QY      120 uGlyThrAlaValSerArgGlyAlaArgLeuSerValAlaValLeuArgGluAspPheG1 140
Db      440 TGGCAGCGGAGTCAGCAGAGGCGCTCGGTGTCTGTGGCTGTCTCCCGGAGGATTCCCA 499
QY      140 nileGlnProArgAspMetValAlaValValGlyClnGlnPheThrLeuGluCysGlyPr 160
Db      500 GATCCAGCGCTCGGACATGGTGGCTGTGTGGTGAGCAGTTTACTCTGGAATGTGGGCC 559
QY      160 oProTIPGlyHisProGluProThrValSerTriPtyAspGlyLysProLeuAlaLe 180
Db      560 GCCTGGGGCCACCCAGAGGCCACAGTCTCATGGTGGAAAGATGGGAACCCCTGGCCCT 619
QY      180 u 180
Db      620 C 620

CF994063 1028 bp mRNA linear EST 25-NOV-2003
AGENCOURT_15622361 NIH_MGC_147 Homo sapiens cDNA clone
IMAGE:30519942 5', mRNA sequence.
CF994063
CF994063.1 GI:38510123
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NIH-MGC http://mgi.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
Contact: Daniela S. Gerhard, Ph.D.
Office of Cancer Genomics
National Cancer Institute / NIH
Bldg. 31 Rm10A07 Bethesda, MD 20892
Email: cgapbs@mail.nih.gov
Tissue Procurement: Dr. Stefan Hansson
CDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
and advice from Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LMNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LMNL at:
http://image.llnl.gov
Plate: NDAM592 row: e column: 07
High quality sequence stop: 411.
Location/Qualifiers
1..1028
/organism="Homo sapiens"

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FEATURES
source

/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:30519942"
/tissue_type="Human Placenta"
/lab_host="DH10B Tona"
/clone_lib="NIH_MGC 147"
/note="Organ: placenta; Vector: pBluescriptR; Site:1:
all-XhoI; Site 2: BamH; Oligo-dT primed using primer
5'-TTTTTTTTTTTTTTVN-3', size-selected for average
insert size 2.3 kb and normalized to ROT 5. This is a
primary library enriched for full-length clones and
constructed using the Cap-trapper method (Carninci, in
preparation). Library constructed by M. Brownstein
(NIH/NHGRI, National Institutes of Health). Note: This is
a NIH_MGC library."

ORIGIN

Alignment Scores:
Pred. No.: 3,58e-92 Length: 1028
Score: 123.00 Matches: 123
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 40.59% Indels: 0
DB: 14 Gaps: 0

US-10-047-021-86 (1-303) x CF994063 (1-1028)

Qy 1 MetGlySerGlyGlyAspSerLeuLeuGlyGlyArgGlySerLeuProLeuLeuLeu 20
Db ATGGGCTCTGAGGAGACAGCCTCTGGGGGCGAGGGGTTCCCTGCTCTGCTGCTG 97
Qy 21 LeuLeuMetGlyGlyMetAlaGlnAspSerProGlnLeuValHisProGlnAsp 40
Db 98 CTCATCATGGAGGATGGCTCAGAGATCCCGCCCGCCAGATCTTCTAGTCCACCCCGAGAC 157
Qy 41 GlnLeuPheGlnGlyProGlyProAlaArgMetSerCysArgAlaSerGlyGlnProPro 60
Db 158 CAGCTGTTCCAGGGCCCTGGCCCTGCCAGATGAGTGCAGGCTCAGGCGCAGCCACCT 217
Qy 61 ProThrLeuArgTrpLeuLeuAsnGlyGlnProLeuSerMetValProProAspProHis 80
Db 218 CCCACCATCCCTGCTGCTGTAATGGGAGCCCTGAGCATGGTGCCCGCCAGACCCACAC 277
Qy 81 HisLeuLeuProAspGlyThrLeuLeuLeuLeuGlnProProAlaArgGlyHisAlaHis 100
Db 278 CACTCTCTGCTGATGGACCTTCTGCTAGACCCCTGCGCGGGACATGCCAC 337
Qy 101 AspGlyGlnAlaLeuSerThrAspLeuGlyValTyrThrCysGluAlaSerAsnArgLeu 120
Db 338 GATGCCAGGCGCTGTCCACAGACCTGGGTGTCTACACATGTGAGGCGCAGCAACCGCTT 397
Qy 121 GlyThrAla 123
Db 398 GGCACGGCA 406

RESULT 15
CB961002 797 bp mRNA linear EST 29-APR-2003
LOCUS AGENCOURT 13761727 NIH_MGC 147 Homo sapiens cDNA clone
DEFINITION IMAGE:30343790 5', mRNA sequence.

ACCESSION CB961002
VERSION CB961002.1 GI:30217119
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 797)

NIH-MGC <http://mgc.nci.nih.gov/>.National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-r@mail.nih.gov

Tissue Procurement: Dr. Stefan Hansson
cDNA Library Preparation: Michael J. Brownstein (NHGRI) with help
and advice from Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
<http://image.llnl.gov>
Plate: NDAM379 row: a column: 15
High quality sequence stop: 475.
Location/Qualifiers

FEATURES

source

1..797
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:30343790"
/tissue_type="Human Placenta"
/lab_host="DH10B Tona"
/clone_lib="NIH_MGC 147"
/note="Organ: placenta; Vector: pBluescriptR; Site:1:
all-XhoI; Site 2: BamH; Oligo-dT primed using primer
5'-TTTTTTTTTTTTTTVN-3', size-selected for average
insert size 2.3 kb and normalized to ROT 5. This is a
primary library enriched for full-length clones and
constructed using the Cap-trapper method (Carninci, in
preparation). Library constructed by M. Brownstein
(NIH/NHGRI, National Institutes of Health). Note: This is
a NIH_MGC library."

ORIGIN

Alignment Scores:
Pred. No.: 1.93e-81 Length: 797
Score: 110.00 Matches: 152
Percent Similarity: 98.70% Conservative: 0
Best Local Similarity: 98.70% Mismatches: 1
Query Match: 36.30% Indels: 2
DB: 14 Gaps: 0

US-10-047-021-86 (1-303) x CB961002 (1-797)

Qy 93 ProProAlaArgGlyHisAlaHisAspGlyGlnAlaLeuSerThrAspLeuGlyValTyr 112
Db 108 CCCCCCTGCCGGGACATGCCACCATGCGCAGGCCCTCTCCACAGACCTGGGTGTCTAC 167
Qy 113 ThrCysGluAlaSerAsnArgLeuGlyThrAlaValSerArgGlyAlaArgLeuSerVal 132
Db 168 ACATGTGAGGCGAGCAACCGGCTTGCGACGGCAGTCAGCAGAGCGCTCGGCTGTCTGTG 227
Qy 133 AlaValLeuArgGluAspPheGlnIleGlnProArgAspMetValAlaValGlyGlu 152
Db 228 GCTGTCTCTCGGAGGATTCTCAGATCCAGCTTCGGGACATGGTGGCTGTGGGTGAG 287
Qy 153 GlnPheThrLeuGluCysGlyProProTrpGlyHisProGluProThrValSerTrpTrp 172
Db 288 CAGTTTACTCTGGAATGTGGCGCCCTCGGGCCACCCAGAGCCACAGTCTCATGGTGG 347
Qy 173 LysAspGlyLysProLeuAlaLeuGlnProGlyArgHisThrValSerGlyGlySerLeu 192
Db 348 AAAGATGGGAAACCCCTGCGCTCCAGCCCGGAAGGCACACAGTGTCCGGGGGTCCCTG 407
Qy 193 LeuMetAlaArgAlaGluLysSerAspGlu***-ThrTyrMetCysValAlaThrAsnSe 212
Db 408 CTGATGGCAGACAGCAGAGAGAGTACGAGG-GACCTACATGTGTGTGGCCACCAACAG 466
Qy 212 rAlaGlyHisArgGluSerArgAlaAlaArgValSerIleGlnGluProGlnAspTyrTh 232
Db 467 CGCAGGACACAGGAGCGCGCAGCCGGGTTTCCATCCAGAGAGCCCGGACATAC 526
Qy 232 rGluProValGluLeuLeuAlaValArgIleGlnLeuGlu 245
Db 527 GGAGCCTGTGGAGCTTCTGCTGTGCAATTTCAGCTGGAA 566

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